GUIDE

TO THE

EXPERIMENTAL PROJECTS

OF THE

DOMINION EXPERIMENTAL FARMS

ADMINISTRATION BUILDING,
CENTRAL EXPERIMENTAL FARM, OTTAWA

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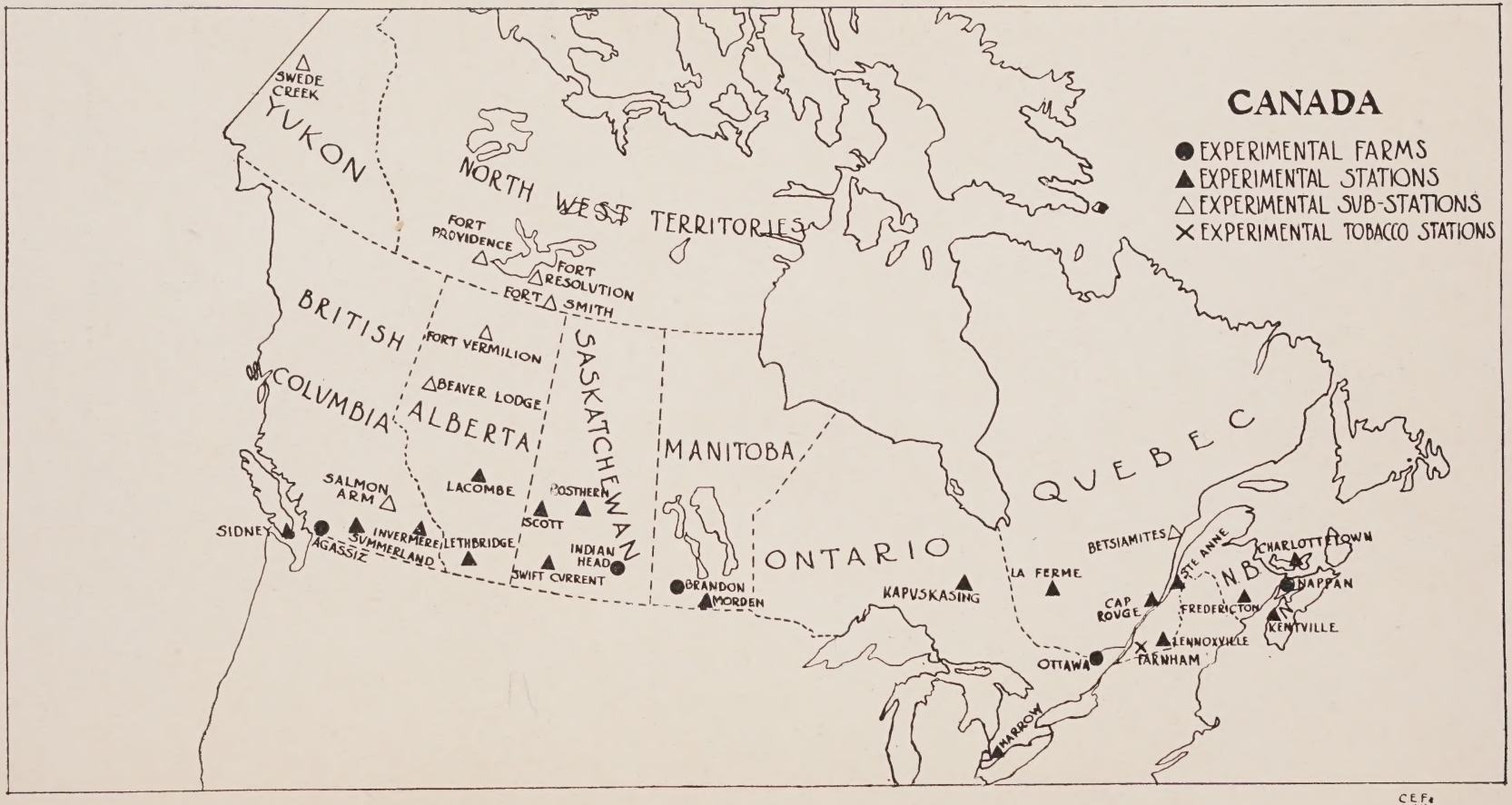

C.E.F.
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FOREWORD

This classified list of the experiments under way on the numerous Dominion Experimental Farms and Stations has been compiled in the belief that it will prove a useful guide to every class of person interested in the progress of Canadian agriculture. A directory to the experimental and research work of the Dominion Experimental Farms is now necessary in order that the public may make the fullest possible use of the information gathered by these institutions. Experiments now under way number about two thousand, and many projects among this number are conducted on several of the twenty-six main Farms, Stations, and Sub-stations, repetitions made necessary by the widely varying soil, climatic, and economic conditions of the agricultural sections of Canada. The farmer will want information from that Experimental Farm having a soil, climate, and market most similar to his own situation. The student and research worker will desire information from as many sources as possible. To both these representative inquirers, this classified list will prove a simple yet comprehensive guide.

The projects under way, comprising the full list of experiments, are first grouped under main headings such as "Animal Husbandry," then subdivided under sections such as "Beef Cattle," and finally set in further divisions such as "Breeding." These main headings and sub-headings are alphabetically arranged. Opposite each project number and title will be found a chart indicating the station or stations on which the experiment is being conducted. A request addressed to the officers of the station concerned will then bring the desired information.

This guide does not list the great mass of experiments that have been brought to completion during the thirty-eight years that the Dominion Experimental Farms have been in operation. Much of the experimental findings and recommendations based on completed work has appeared in bulletin form. A list of those publications yet in print may be secured by writing the Publication Branch, Department of Agriculture, Ottawa.

There are other varied activities of the branch Farms and Divisions which cannot be included in this list of experimental projects, since their nature is more that of extension work in which actual demonstration of correct principles to the farmer plays a large part. This part of the work of the Farms is most necessary. Indeed, it is maintained that without its co-operative help, a large portion of the results from research work would not be made use of. Yet, while vital to agriculture's progress in Canada and making up a large part of the daily work of the Experimental Farms staff, the very nature of these activities prohibits their inclusion in this Guide.

Project No.		Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Ft. Vermilion	Sub-stations
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A. 502	Breeding Holstein cattle	*				*											*		*		*			*				
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	DAIRY CATTLE—Continued																											
	Breeding—Concluded																											
A. 504	Breeding Guernsey cattle				*																							
A. 505	Breeding French-Canadian cattle							*																				
A. 265	Breeding methods with dairy cattle, i.e., in-breeding, line-breeding and out-crossing							*																				
A. 204	Grading-up dairy herd with pure-bred sires							*			*		*															
A. 263	Influence of proven sire on dairy herd							*													*							
A. 479	Influence of the sire on the improvement of milking properties																											
	Cost Studies—																											
A. 59	Periodic costs of rearing dairy females		*			*	*	*	*		*		*	*			*		*		*	*	*	*				
A. 456	Periodic costs of rearing dairy males					*	*	*	*		*		*	*			*		*		*	*	*	*				
A. 217	Cost of maintaining dairy herd sires		*						*		*																	
A. 56	Cost of milk production. (Dairy and Dual-Purpose Breeds)	*	*	*	*	*		*	*		*		*	*	*	*	*	*	*	*		*	*	*	*				
A. 55	Comparison of dairy breeds in milk and butter-fat production	*																										
	Feeds—Roughages, Pastures and Succulents—																											
A. 215	Clover silage vs. pea and oat silage mixed for milch cows																							*				
A. 1	Corn silage vs. clover silage for dairy cows																							*				
A. 452	Corn silage vs. O.P.V. silage for milch cows	*																										
A. 214	Corn silage vs. pea and oat silage mixed for milch cows																							*				
A. 8	Corn silage vs. roots and silage for milch cows	*					*																					
A. 13	Corn silage vs. sunflower silage for milch cows				*	*																						
A. 396	Corn silage vs. sunflower silage for calves and heifers					*																		*				
A. 577	Corn silage vs. sunflower silage and cut green feed for milk production																				*							
A. 507	Corn silage vs. sweet clover silage for milch cows	*																										
A. 260	Corn silage vs. oat hay for milch cows						*																					
A. 7	Corn silage vs. mangels for milch cows	*					*																					
A. 395	Corn silage vs. turnips for milch cows				*	*																		*				
A. 211	Corn silage vs. pasture for summer feeding of milch cows																							*				
A. 576	Oat silage vs. sunflower silage and green feed for milk production																				*							

A. 212	Sunflower silage vs. clover silage for milch cows																						*					
A. 355	Sunflower silage vs. O.P.V. silage for milch cows												*															
A. 358	Sunflower silage vs. O.P.V. silage for growing calves												*															
A. 575	Sunflower silage vs. sunflower silage and cut green feed for milk production																				*							
A. 379	Sunflower silage vs. turnips for milch cows				*																							
A. 399	Silage vs. roots for growing stock					*																						
A. 210	Mangels vs. potatoes for milch cows																						*					
A. 2	Mangels vs. turnips for milch cows																						*					
A. 14	Roots (mangels) vs. dried beet pulp for milch cows																						*					
A. 5	Roots and silage vs. roots for milch cows															*												
A. 561	Ground vs. whole roughages for dairy cattle	*																										
A. 480	Oat green feed vs. alfalfa hay for milk production																				*							
A. 400	Oat straw vs. mixed hay for young stock					*																						
	Feeds—Grains, Meals, Mineral Supplements and Milk—																											
A. 262	Skim-milk vs. powdered skim-milk vs. whole milk and bone meal for dairy calves							*																				
A. 497	Skim-milk in the ration for raising dairy calves, value of	*					*																					
A. 208	Skim-milk vs. whole milk for dairy calf rearing		*			*																	*					
A. 53	Whole milk vs. home-mixed meal and skim-milk vs. commercial meals and skim-milk for calf feeding							*																				
A. 498	Comparison of calf meal mixtures for raising calves	*				*	*		*																			
A. 506	Comparison of alfalfa meal vs. bran for milch cows	*																										
A. 380	Commercial mixed feeds for milk production, testing			*																			*					
A. 206	Feeding elevator screenings vs. barley to milch cows																						*					
A. 551	Meal vs. no meal for growing heifers																											
A. 213	Peanut meal vs. corn meal for milch cows																						*					
A. 499	Rye, distillers' grains vs. corn, distillers' grains vs. oat scalpings for dairy cows	*																										
A. 219	Feeding of minerals to calves and heifers						*		*															*				
A. 268	Feeding of minerals to milch cows			*	*	*	*								*									*				
A. 372	Influence of minerals in abortion control			*																								
A. 435	Bone meal for dairy calf feeding, value of				*																							
A. 591	Value of bone charcoal in ration of dairy calves and heifers	*																										
	Health—																											
A. 93	The Bang herd system of tuberculosis control	*																										
A. 94	Treatment and control of contagious abortion in dairy cattle	*																					*					
A. 589	Trials of commercial remedies, treatments and vaccines for infectious abortion control																						*					
	Housing—																											
A. 266	Inexpensive housing of dairy heifers							*																				
A. 52	Dairy barn construction, studies in																											
A. 54	Ventilation of dairy barns, studies in	*																										

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	DAIRY CATTLE—Concluded																											
	Management and Feeding Methods—																											
A. 209	Clipped vs. unclipped calves																							*				
A. 558	Comparison of heavy, medium and light feeding of silage to milch cows														*													
A. 264	Influence of feed on development of calves and heifers							*																				
A. 397	Influence of dehorning on milch cows and heifers				*																							
A. 438	Methods of rearing dairy cattle, comparison of					*																			*			
A. 269	Relationship between growth and age in dairy calves																											
A. 556	Three milkings and three feedings vs. two milkings and two feedings for milk production						*																					
A. 258	Feeding calves, twice vs. three times daily																											
	Records—																											
A. 360	Private herd records	*	*	*		*			*				*	*			*				*			*	*			
A. 57	Record of Merit. (Holstein)	*				*															*		*	*				
A. 58	Record of Performance. (Dairy and Dual-purpose breeds)	*	*	*		*			*				*	*			*				*		*	*	*			
	DAIRYING																											
	Manufacture of Dairy Products—																											
A. 469	Buttermilk cheese	*																										
A. 84	Cheddar cheese	*																			*							
A. 203	Cheshire cheese																							*				
A. 82	Coulomnier cheese	*																										
A. 81	Cream cheese	*																						*				
A. 83	Meilleur cheese	*																						*				
A. 99	Pont L'eveque cheese																							*				
A. 202	Roquefort cheese																							*				
A. 98	Stilton cheese																							*				
A. 201	Wensleydale cheese	*																						*				
A. 100	Butter	*																			*			*				

	Dairy Utensils and Sanitation—																											
A. 351	Controlling the bacterial count in milk													*									*					
A. 86	Studies and comparison of milking machines	*												*									*					
	Marketing—																											
A. 481	Relative profits from manufacture of cheese and butter																			*								
	Farm Dairy Buildings—																											
A. 22	Construction of ice houses	*																										
A. 23	Construction of farm dairies and milk houses	*																										
	HORSES																											
	Breeding—																											
A. 509	Breeding Clydesdale horses	*	*			*								*	*	*				*	*		*					
A. 529	Breeding French-Canadian horses							*			*																	
A. 531	Breeding Percheron horses						*							*				*										
A. 530	Breeding Shire horses																			*								
A. 334	Comparing in-breeding, line-breeding and out-crossing methods of breeding horses							*																				
A. 297	Grading-up horses								*							*												
A. 298	Improving the type of pure-bred draft horses															*												
	Cost Studies—																											
A. 294	Periodic costs of rearing draft horses	*	*			*	*	*						*	*	*		*			*	*		*				
A. 293	Cost of horse labour		*			*			*		*		*	*	*			*	*		*	*		*				
A. 336	Cost of maintaining brood mares					*					*			*	*	*		*						*				
A. 331	Cost of maintaining work horses	*	*	*		*		*			*		*	*	*	*	*		*		*	*		*				
A. 296	Cost of wintering idle work horses		*					*	*								*	*										
	Feeding and Management—																											
A. 335	Crushed vs. whole oats for work horses	*																										
A. 459	Sunflower silage for horses, value of																	*										
A. 333	Economy of rearing fall foals							*																				
A. 547	Economy of rearing spring vs. fall foals						*																					
A. 332	Work vs. no work for pregnant brood mares							*																				
A. 299	Wintering idle work horses outdoors														*									*				
	Health—																											
A. 340	Control of naval or joint-ill in foals	*			*	*										*	*	*										
	Housing—																											
A. 330	Raising horses in cheap sheds in Eastern Canada							*																				
A. 409	Wintering horses in barn vs. outside															*												
A. 554	Ventilation systems for horse barns	*																										
A. 281	Horse barn construction	*																										

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	ANIMAL HYBRIDIZATION																											
A. 517	Acquisition of and studies in breeding a herd of Hybrid (Bison-Domestic) three-quarter bred Bison, and Cattalo (Massom Boyd)																											*
A. 581	Establishing a range herd of Hybrids of Bison Domestic cattle and Yak extraction																											*
A. 582	Studies of causes of sterility in Hybrid, Second-cross and Cattalo cows																											*
A. 583	The Bison-Domestic cross																											*
A. 584	The Yak-Domestic cross																											*
A. 585	The Domestic-Yak cross																											*
A. 586	The Yak-Bison cross																											*
	SHEEP																											
	Breeding—																											
A. 525	Breeding Cheviot sheep										*							*					*					
A. 544	Breeding Dorset sheep																											
A. 533	Breeding Hampshire sheep													*										*				
A. 510	Breeding Leicester sheep	*					*										*											
A. 518	Breeding Oxford Down sheep								*						*													
A. 511	Breeding Shropshire sheep	*			*	*							*			*		*										
A. 543	Breeding Southdown sheep																								*			
A. 328	Breeding ewe lambs vs. breeding as shearling ewes						*				*																	
A. 482	Comparison of graded-up ewes of various breeds																				*							
A. 483	Comparison of lambs from graded-up ewes of various breeds																				*							
A. 484	Comparison of wethers from graded-up ewes of various breeds																				*							
A. 485	Comparison of lambing results from graded up ewes of various breeds																				*							
A. 512	Comparison of lambing results from pure-bred vs. cross-bred ewes	*																										
A. 570	Grading-up a flock of multi-nipple sheep				*																							
A. 310	Grading-up the flock with pure-bred rams										*			*	*						*							
A. 578	Improving the market type of the progeny of grade ewes								*								*	*						*				
A. 384	Value of cross-breeding for improving mutton type						*																					
A. 401	Value of Shropshire vs. Cheviot rams for grading																											

	Cost Studies—																											
A. 311	Cost of maintaining breeding ewes					*			*									*					*	*				
A. 519	Cost of maintaining breeding rams								*														*					
A. 316	Cost of rearing ewe lambs to breeding age														*													
A. 596	Cost of rearing ram lambs for breeding purposes					*																						
A. 338	Cost of rearing market lambs					*			*		*					*							*					
	Feeds—Roughages, Pastures and Succulents—																											
A. 386	Corn silage for sheep, value of																			*				*				
A. 385	Sunflower silage for sheep, value of																			*				*				
A. 418	Sunflower vs. O.P.V. silage for lambs												*															
A. 559	Silage on the progeny of breeding ewes, influence of	*														*												
A. 568	Silage vs. roots for breeding ewes													*														
A. 301	Silage vs. roots for market lambs															*												
A. 369	Roots for lamb feeding, value of																	*										
A. 491	Oat green feed vs. low-land hay for fattening ewes																				*							
A. 302	Rape pasture for sheep and lamb feeding, value of																							*				
A. 588	Rape vs. clover pasture for fattening lambs, comparison of																							*				
A. 389	Alfalfa hay for sheep and lambs, value of																			*								
A. 467	Hay vs. straw as roughages for sheep														*													
A. 492	Roughages for feeding yearling wethers																				*							
	Feeds—Grains, Meals and Mineral Supplements—																											
A. 493	Comparison of grain rations for lamb feeding																				*							
A. 326	Comparison of whole vs. crushed oats for sheep																							*				
A. 555	Corn meal vs. barley meal for finishing lambs										*																	
	Health—																											
A. 442	Potassium Iodide treatment for goitre in lambs	*									*						*	*										
	Housing—																											
A. 560	Housing inside vs. outside at lambing time	*																										
A. 303	Feeding-rack and trough construction	*																										
A. 325	Sheep barn, shed and shelter construction	*																										
	Management and Feeding Methods—																											
A. 322	Determination of the most profitable season for lambing																							*				
A. 408	Early vs. late lambs for market, the economy of						*									*								*				
A. 403	Early vs. late weaning of lambs, the economy of					*												*										
A. 342	Pasturing sheep on forest reserve																			*								
A. 439	Rations for breeding ewes, comparison of					*																						
A. 395	Shearlings vs. lambs as feeders, comparison of																				*							
A. 327	Spring vs. fall shearing of sheep																							*				
A. 307	Winter feeding of market lambs					*							*															
A. 487	Wool grades of graded-up sheep, comparison of																				*							

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	SHEEP—Concluded																											
	Marketing—																											
A. 324	Co-operative marketing of wool	*							*												*			*				
A. 329	Marketing lambs in fall vs. marketing in winter					*																						
A. 489	Marketing lambs locally vs. at stockyards																				*							
A. 488	Show-ring vs. slaughter tests of graded-up sheep, comparison of																				*							
	SWINE																											
	Breeding—																											
A. 514	Breeding Berkshire swine	*			*										*	*	*	*			*		*					
A. 537	Breeding Tamworth swine																*		*		*			*				
A. 513	Breeding Yorkshire swine	*	*	*	*	*	*	*	*		*		*		*	*	*	*			*	*		*				
A. 164	Age at which to breed gilts																							*				
A. 451	Comparison of pure-bred pigs and cross-breds in breeding characteristics	*																			*							
A. 550	Strain testing of pure-bred hogs	*																								*		
	Cost Studies—																											
A. 158	Cost of feeding brood sows	*	*	*	*	*	*	*	*				*									*	*	*				
A. 166	Cost of maintaining herd boar			*		*	*	*			*											*	*	*				
A. 163	Cost of pork production	*	*			*	*	*	*		*		*		*		*	*			*	*	*	*				
A. 157	Cost of raising pigs to breeding age					*			*		*																	
A. 145	Cost of raising pigs to three months of age		*								*																	
A. 159	Cost of raising pigs to six months of age										*																	
A. 160	Cost of raising pigs to time of weaning	*			*	*		*	*		*		*									*		*				
A. 494	Economy of early vs. late fall litters																				*							
A. 431	Economy of early vs. late spring litters																				*							
A. 423	Economy of rearing one vs. two litters per year						*																					
A. 162	Economy of spring vs. fall litters																				*							
	Feeds—Roughages, Pastures and Succulents—																											
A. 473	Alfalfa hay vs. alfalfa meal for brood sows	*																					*					
A. 464	Alfalfa hay vs. apples for hogs, value of																											

A. 463	Alfalfa hay vs. roots for hogs, value of																					*						
A. 465	Roots vs. apples for market hogs, value of																					*						
A. 165	Unmarketable potatoes for hogs, value of																						*					
A. 233	Pasture crops for hogs, value of	*											*		*	*	*	*			*							
A. 449	Soiling vs. pasture crops for hogs	*				*																						
A. 579	Suitability of different crops for hogging down																				*							
	Feeds—Grains, Meals, Mineral Supplements and Milk—																											
A. 235	Buttermilk for hogs, feeding value of																	*										
A. 381	Buttermilk vs. oil meal and meat meal for rearing pigs			*																								
A. 592	Flax as a milk substitute in the ration of hogs, value of	*																										
A. 472	Milk powder vs. skim-milk for hogs, value of	*																										
A. 446	Pro-lac meal vs. skim-milk for hogs, comparison of	*													*													
A. 593	Semi-solid buttermilk to market hogs, feeding	*																										
A. 450	Skim-milk vs. buttermilk for market hogs	*																										
A. 571	Skim-milk vs. fish meal for market hogs				*																							
A. 168	Skim-milk vs. tankage for market hogs	*			*				*				*				*											
A. 143	Skim-milk as a supplement to the meal ration of hogs, value of												*										*					
A. 231	Tankage vs. buttermilk for feeding bacon hogs														*			*										
A. 382	Tankage for hog feeding, value of															*				*								
A. 572	Tankage vs. fish meal for market hogs				*																							
A. 549	Feeding yeast vs. cod liver oil in hog feeding, value of	*																										
A. 352	Fish meal vs. soy bean meal vs. oilcake meal for hogs																						*					
A. 594	Bone charcoal in the ration of growing pigs and feeding, value of	*																										
A. 113	Mineral and protein supplements for rearing pigs															*												
A. 114	Mineral condiments for the brood sow						*																					
A. 496	Mineral supplements to indoor feeding of pigs														*						*		*					
A. 603	Salt on growing pigs, effect of																				*							
A. 515	Alfalfa meal for market hogs, value of	*																										
A. 473	Alfalfa meal vs. alfalfa hay for brood sows																											
A. 471	Alfalfa meal vs. sweet clover meal for hogs	*																										
A. 407	Barley meal for hog feeding, value of															*												
A. 548	Barley meal vs. buckwheat meal for market hogs, value of					*																						
A. 363	Buckwheat vs. corn meal for hogs					*																						
A. 135	Corn vs. barley for bacon production, comparison of				*	*	*				*																	
A. 422	Corn vs. oat meal for market hogs						*																					
A. 601	Crushed oats for young growing pigs, value of				*																							
A. 142	Elevator screenings for hog feeding								*																			
A. 169	Elevator screenings vs. home-mixed ration for hogs								*																			
A. 545	Ground barley vs. ground hulless barley for market hogs, comparison of																				*					*		
A. 445	Ground oats vs. ground hulless oats for market hogs, comparison of	*																*								*		
A. 230	Ground oats vs. oat flour for hog feeding												*															
A. 106	Meal vs. meal and green feed for summer feeding of shoats				*																							

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	SWINE—Concluded																											
	Feeds—Grains, Meals, Mineral Supplements and Milk—Concluded																											
A. 598	Middlings vs. buckwheat for market hogs, comparison of					*																						
A. 597	Middlings vs. corn for market hogs, comparison of					*																						
A. 600	Middlings vs. crushed oats (sifted) for young pigs				*																							
A. 602	Middlings for young growing pigs, value of				*																							
A. 580	Oat hulls on growth of hogs, effect of	*																			*							
A. 477	Oat scalpings for hogs, value of						*								*													
A. 534	Oats vs. barley meal for market hogs, comparison of																				*							
A. 127	Rations for weaning pigs, comparison of														*													
A. 131	Water for hogs in winter, value of																											
	Health—																											
A. 167	External parasites of swine, control of	*																										
A. 223	Internal parasites of swine, control of	*														*												
A. 406	Hairlessness in litters, control of																											
A. 154	Intestinal and lung worms in hogs, control of	*																										
A. 476	Potassium Iodide for brood sows, value of	*															*											
A. 475	Potassium Iodide in hog feeding, value of	*																										
A. 552	Testing laxatives for swine																											
	Housing—																											
A. 523	Farm piggery construction	*																										
A. 151	Permanent vs. portable quarters for swine	*	*				*								*									*				
A. 462	Winter quarters for brood sows														*													
A. 119	Ventilation systems for piggeries																											
	Management and Feeding Methods—																											
A. 156	Comparison of pure-bred pigs and cross-breds in feeding characteristics	*				*											*	*			*					*		
A. 137	Ground vs. unground grains for hogs																*	*										
A. 420	Heavy vs. light meal feeding of market hogs						*										*	*										
A. 444	Influence of feeds and methods of feeding on bacon type	*																										

A. 146	Inside vs. outside feeding of bacon hogs in summer														*						*			*				
A. 147	Inside vs. outside feeding of bacon hogs in winter															*					*							
A. 144	Investigations concerning the causes of soft pork																											
A. 437	Pre-natal influence of housing and feeding on the litter				*																*							
A. 447	Self-feeding organic supplements, to determine the economy of	*																										
A. 120	Self-feeding vs. trough-feeding of swine	*											*				*	*			*							
A. 138	Soaking ground vs. unground grain vs. dry feeding			*																								
A. 516	Sows vs. barrows as market hogs, comparison of	*																										

Note.—See Division of Chemistry for investigations as to the value of various feeding stuffs and fodders and cattle tonics.

APICULTURE

	APIARIES																											
Ap. 20	Returns from apiaries						*		*		*		*				*	*						*	*	*		
Ap. 55	Out apiaries	*		*		*	*																		*			
	BEE RACES																											
Ap. 33	Comparison of races of bees	*		*			*																					
	COMBS																											
Ap. 23	Aluminum combs compared with others	*		*																								
Ap. 24	Comparing different methods of cleaning combs	*		*																								
Ap. 44.	Testing various weights and makes of foundation	*																										
Ap. 53	Drawn comb versus foundation																			*								
	DISEASES AND ENEMIES																											
Ap. 18	Diseases affecting Brood	*												*														
Ap. 19	" " adults	*																										

Note.—For further studies on diseases see Bacteriology.

Project No.		Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Ft. Vermilion	Sub-stations
	FEEDING																											
Ap. 25	The value of stimulative feeding for brood production	*					*											*										
Ap. 29	Comparison of different kinds of feeders	*	*				*																					
	HIVES																											
Ap. 21	Comparison of different sizes of hives	*	*	*	*	*	*		*				*	*						*	*	*	*		*			
	HONEY PLANTS																											
Ap. 14	Study of Alsike and Dutch clovers	*																										
Ap. 16	Study of minor honey plants	*																										
Ap. 26	Study of nectar secretion	*																										
Ap. 48	Fruit bloom as a source of nectar						*																					
	HONEY PRODUCTION																											
Ap. 28	Study of honey flows	*	*	*	*	*	*		*		*		*	*			*	*		*	*	*	*	*	*	*		
Ap. 35	Comb versus extracted honey production	*		*			*							*						*	*							
Ap. 36	Relation of strength of colony in bees and brood to the honey crop	*				*	*							*						*	*							
Ap. 47	Relation between divided and undivided colonies and honey yields	*		*													*			*								
	INCREASE																											
Ap. 45	Methods of increase without natural swarming	*		*													*											
Ap. 54	Comparison of different methods and times of increase													*						*								

	MANAGEMENT																										
Ap. 32	Spring protection of brood chamber	*					*														*						
Ap. 37	Comparison of methods for building up colonies in the spring					*														*					*		
Ap. 42	Protected versus unprotected hives in summer	*															*			*	*	*	*	*	*		
	PACKAGE BEES																										
Ap. 22	Package bees as a means of starting colonies					*								*			*	*		*	*			*			
Ap. 43	Methods of establishing combless package bees													*						*							
	POLLINATION																										
Ap. 27	The value of honey bees in cross pollination	*		*																							
	QUEENS																										
Ap. 12	Two Queen system	*	*	*	*	*	*		*				*	*						*	*	*					
Ap. 13	Controlled mating of Queens	*											*														
Ap. 34	Queen rearing	*		*		*	*						*	*			*			*							
Ap. 38	Comparison of different methods of introducing Queens	*		*		*	*																	*			
Ap. 51	Determining daily egg-laying capacity of Queens	*																									
	SWARM CONTROL																										
Ap. 1	Control of swarming by dequeening and requeening	*	*	*	*	*	*		*		*		*	*			*	*		*	*	*	*	*	*	*	
Ap. 2	" " separation of brood and Queen	*	*	*	*	*	*		*		*			*				*		*	*						
Ap. 3	" " periodic destruction of Queen cells																	*									
Ap. 4	" " artificial swarming	*																									
Ap. 5	Methods of detecting preparations for swarming	*	*	*	*	*	*		*		*		*	*			*	*		*	*	*	*	*	*	*	
Ap. 6	Comparing different methods of handling natural swarms for efficiency						*																				
Ap. 31	Prevention of swarming by giving room	*	*																								
	WINTERING																										
Ap. 7	Wintering in cellar	*	*			*	*		*		*		*	*				*			*					*	
Ap. 8	Wintering in 4-colony cases	*	*	*		*	*		*				*	*			*	*		*	*		*			*	
Ap. 9	Wintering in 2-colony cases	*		*	*	*	*										*			*	*						
Ap. 10	Wintering in single colony cases	*		*			*							*						*			*	*	*		
Ap. 11	Comparison of different stores for wintering	*		*			*													*							
Ap. 30	Outdoor versus cellar wintering	*	*			*	*		*				*	*				*			*						
Ap. 49	Wintering in double brood chamber	*		*		*	*							*			*			*					*		
Ap. 50	Colony temperatures of outdoor wintered bees	*																									

BACTERIOLOGY

Project No.		Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Fr. Vermilion	Sub-stations
Ba. 1	Bacteriological studies of flax retting. (See also Flax Div.)	*																									
Ba. 2	Microbiological studies of frozen soil	*																									
Ba. 3	Pure milk production with reference to bacterial contamination	*																									
Ba. 4	Morphological and cultural studies of *Bacillus larvae*, the organism causing American foulbrood of bees	*																									
Ba. 5	Study of a wheat-sick soil from cereal plots	*																									
Ba. 6	A bacteriological investigation of milking machines	*																									
Ba. 7	An infectious disease of the cabbage worm (*Pieris rapae*) known as Flacherie (in association with the Entomological Branch)	*																									
Ba. 8	Study of an organism producing a bitter flavour in milk	*																									
Ba. 9	On the utilization of ammonium sulphate by apple trees	*																									
Ba. 10	*Study of the longevity of the nodule organism (*B-radicicola*) on inoculated legume seeds during storage	*																									
Ba. 11	Experiments in nitro-culture distribution	*																									
Ba. 12	A cultural study of the bacteria in frozen soil	*																									
Ba. 13	Examination of "Vitamite," a bacterial culture preparation claimed to promote plant growth	*																									
Ba. 14	Examination of "Soilgro", a bacterial preparation claimed to promote plant growth	*																									
Ba. 15	Examination of "Soilvita", a bacterial preparation claimed to promote plant growth	*																									

*NOTE.—See projects No. 147 and 169 under Division of Agrostology.

BOTANY*

Project No.		Ottawa, Ont.	Charlottetown, P.E.I.	Kentville, N.S.	Fredericton, N.B.	Ste. Anne de la Pocatière, P.Q.	St. Catharines, Ont.	Winnipeg, Man.	Saskatoon, Sask.	Summerland, B.C.
	CEREAL DISEASE INVESTIGATIONS									
B. 34	Uniform rust nurseries	*								
B. 51	Preliminary study of the cereal stem rust situation in Prince Edward Island		*							
B. 62	Resistance of strains of timothy to rust			*						
B. 89	Control of seedling-infecting smuts and bunts of cereals					*				
B. 80	Comparative treatments for the control of oat smut				*					
B. 103	Control of bunt of wheat							*		
B. 104	Control of oat smut							*	*	
B. 105	Control of covered smut of barley							*	*	
B. 106	Varietal resistance of oats to smut							*	*	
B. 107	Epidemiology of cereal rusts in Manitoba							*	*	
B. 108	Varietal resistance of oats to black stem rust							*	*	
B. 109	Varietal resistance of oats to crown rust							*	*	
B. 110	Studies in the overwintering of uredinial stage of *Puccinia graminis* in the prairie provinces							*	*	
B. 111	Biologic specialization of *Puccinia graminis Avenae*							*	*	
B. 112	The constancy of biologic forms of *Puccinia graminis Avenae*							*	*	
B. 113	Survey of plant diseases in Manitoba							*	*	
B. 114	Barberry eradication in Manitoba, Saskatchewan and Alberta							*	*	
B. 115	Buckthorn survey in Manitoba, Saskatchewan and Alberta							*	*	
B. 116	Investigation of wheat rots							*	*	
B. 117	Seed treatment for control of wheat bunt							*	*	
B. 118	Standards for the testing of fungicides for seed treatment							*	*	
B. 119	Influence of the date of planting on the percentage of smut or other diseases in the crop							*	*	
B. 120	Determination of varietal susceptibility of cereals to their respective smuts							*	*	
B. 121	Determination of the occurrence of biologic forms in the cereal smuts							*	*	
B. 122	Breeding varieties of sweet corn highly resistant to corn smut *(Ustilago Zeae)*							*	*	
B. 123	Seed treatment for the control of covered smut of oats							*	*	
B. 124	Origin and spread of stem rust								*	
B. 125	Hosts of stem rust								*	
B. 129	Western rye smut investigations								*	
B. 130	Wheat variety tests for resistance to stem rust								*	

*Note.—Plant disease investigations are conducted at eight Plant Pathological Laboratories and the central laboratory at Ottawa.

Project No.		Ottawa, Ont.	Charlottetown, P.E.I.	Kentville, N.S.	Fredericton, N.B.	Ste. Anne de la Pocatière, P.Q.	St. Catharines, Ont.	Winnipeg, Man.	Saskatoon, Sask.	Summerland, B.C.
	CEREAL DISEASE INVESTIGATIONS—Concluded									
B. 131	Rust strains on wheat in the Prairie Provinces	.....	.....	.....	.....	.....	.....	.....	*	.....
B. 132	Study of ' take all'' of wheat *(Ophiobolus cariceti)*	.....	.....	.....	.....	.....	.....	.....	*	.....
B. 133	Co-operative studies of the disease of cereals caused by *Helminthosporium sativum*	.....	.....	.....	.....	.....	.....	.....	*	.....
B. 134	Dusting for the control of cereal rusts	.....	.....	.....	.....	.....	.....	.....	*	.....
B. 135	A study of *Fusarium* spp. which cause root rot	.....	.....	.....	.....	.....	.....	.....	*	.....
B. 136	A study of *Fusarium* head blight or scab of cereals	.....	.....	.....	.....	.....	.....	.....	*	.....
B. 137	A study of *Helminthosporium sativum* a fungous parasite causing root rot of cereals	.....	.....	.....	.....	.....	.....	.....	*	.....
B. 138	A study of control of root-rotting fungi including *Fusarium* spp. and *Helminthosporium* spp	.....	.....	.....	.....	.....	.....	.....	*	.....
	DISEASES OF FORAGE CROPS									
B. 65	Resistance of varieties and strains of clover to mildew	.....	.....	*	.....	.....	.....	.....	.....	.....
	DISEASES OF ORNAMENTAL PLANTS									
B. 12	Gladiolus diseases	*	.....	.....	.....	.....	.....	.....	.....	.....
B. 13	Aster wilt	*	.....	.....	.....	.....	.....	.....	.....	.....
B. 64	Cause and control of tulip root rot and blight	.....	.....	*	.....	.....	.....	.....	.....	.....
B. 102	Fusarium wilt of China aster	.....	.....	.....	.....	.....	*	.....	.....	.....
	ECONOMIC BOTANY									
B. 1	Completion of a reference herbarium of the wild plants of Canada	*	.....	.....	.....	.....	.....	.....	.....	.....
B. 2	Exchange of seeds with foreign Botanic Gardens	*	.....	.....	.....	.....	.....	.....	.....	.....
B. 3	Identification and methods of control for poisonous plants	*	.....	.....	.....	.....	.....	.....	.....	.....
B. 4	Tests of hardiness of various plants	*	.....	.....	.....	.....	.....	.....	.....	.....
B. 5	Relation of plants to temperature	*	.....	.....	.....	.....	.....	.....	.....	.....
B. 6	Canadian weed survey	*	.....	.....	.....	.....	.....	.....	.....	.....
B. 7	Control of *Convolvulus arvensis*	*	.....	.....	.....	.....	.....	.....	.....	.....
B. 8	Salt as a herbicide	*	.....	.....	.....	.....	.....	.....	.....	.....

B. 9	Destruction of moss on lawns	*								
B. 10	Destruction of dandelions	*								
B. 11	Control of mouse-ear hawkweed	*								
	See also Chemistry.									
	FOREST PATHOLOGY									
B. 14	Armillaria root rot	*								
B. 15	Investigation of red rot of balsam	*								
B. 16	Cultural studies of various fungi causing diseases of trees	*								
B. 17	Study of wilt of maple	*								
B. 18	Needle blight of white pine	*								
B. 19	White pine blister rust	*								
B. 20	Study of diseases of a coniferous nursery stock	*								
B. 21	Studies on the decay of Sitka spruce	*								
	FRUIT DISEASE INVESTIGATIONS									
B. 53	Black knot of plums			*						
B. 54	Seasonal development of *Venturia inaequalis* (Cke.) Wint			*						
B. 90	Raspberry inspection and certification service						*			
B. 91	Raspberry mosaic research I						*			
B. 92	Raspberry mosaic research II						*			
B. 93	Raspberry mosaic variety tests						*			
B. 94	Blue stem of the black raspberry						*			
B. 95	Spray vs. dust for peach leaf curl						*			
B. 96	Strawberry root trouble						*			
B. 97	Blossom blight of cherries						*			
B. 98	Spraying and dusting for control of apple scab						*			
B. 99	Plum yellows or little plum						*			
B. 100	Chlorosis of grapes						*			
B. 101	Niagara peninsula co-operative spray service						*			
B. 139	Longevity of *Bacillus amylovorus* in pruned limbs of pears during the dormant season									*
B. 140	Blight resistant pear varieties									*
B. 141	Lime sulphur vs. colloidal sulphur in the control of powdery mildew									*
B. 142	The value of case in spreader in the control of powdery mildew									*
B. 143	Longevity of *Bacillus amylovorus* in mature fruit									*
B. 144	Longevity of *Bacillus amylovorus* in immature fruit									*
B. 145	Value of oiled wraps in the storage of apples									*
B. 146	Longevity of *Bacillus amylovorus* in honey									*
B. 147	Longevity of *Bacillus amylovorus* in boxes of fruit									*
B. 148	Spread of fire blight during winter pruning									*
B. 149	Physiological diseases									*

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	MISCELLANEOUS									
B. 36	A survey of the plant diseases occurring in the Dominion of Canada	*								
B. 37	Experiment to test the efficiency of various commercial methods of treatment of soils and seed for the control of diseases	*								
B. 38	Experiments with Popoff's plant stimulation treatment	*								
B. 39	Silver leaf disease	*								
B. 52	Investigation of "Browning" and "Stem Break" of cultivated flax		*							
	MYCOLOGICAL STUDIES									
B. 30	Laboratory studies of *Fomes pinicola*	*								
B. 31	Laboratory studies of *Pholiota adiposa*	*								
B. 32	A study of the fungus *Clitopilus abortivus B.* et C	*								
B. 33	A study of the effect of fungi causing mildew upon the durability of the fabric of military tents	*								
B. 159	Maintenance of national mycological collections and herbarium	*								
B. 160	Maintenance of pure cultures of pathogenic fungi for reference	*								
	POTATO DISEASE INVESTIGATIONS									
B. 22	Seed potato inspection and certification	*								
B. 23	Hill selection—Green Mountain	*								
B. 24	Hill selection—Irish Cobbler	*								
B. 25	Potato strains—Green Mountain	*								
B. 26	Potato strains—Irish Cobbler	*								
B. 27	Tests with sets from different parts of the tuber	*								
B. 28	Experiment to test the effect of using spindle-shaped tubers	*								
B. 40	Black scurf of potatoes		*							

B. 41	Black leg of potatoes		*							
B. 42	Seed strain test		*							
B. 43	Powdery scab of potatoes		*							
B. 44	Spraying vs. dusting for the control of late blight of potatoes		*							
B. 45	Seed treatment for black leg and rhizontonia		*							
B. 46	Experiment to determine the use of small tubers for seed		*							
B. 47	Effect of close vs. wide spacing of potato sets on the amount of tubers grading Extra No. 1		*							
B. 48	Determination of *Fusarium* and *Verticillium* wilts and forms of necrosis in Prince Edward Island		*							
B. 50	Investigations of the cause of storage losses of potatoes in Prince Edward Island		*							
B. 55	Control of aphids and other insects on potatoes as a control for the spread of degeneration diseases			*						
B. 56	Isolation of pure lines of disease-free, high-yielding strains of Irish Cobbler, Green Mountain, Bliss Triumph, and Garnet Chili varieties of potatoes			*						
B. 57	Observations of the behaviour of off-type plants in Garnet Chili variety of potatoes			*						
B. 58	Improvement of seed stocks of important commercial varieties			*						
B. 59	Effect of persistent selection on the shape of the tubers			*						
B. 60	Rejuvenation of Garnet Chili seed potatoes originating in Nova Scotia for the Bermuda market			*						
B. 66	Effect of fertilizers on common scab				*					
B. 67	Forcing immature tubers				*					
B. 68	Spray and dust demonstration on potatoes				*					
B. 69	Testing new varieties and strains to obtain disease-free seed				*					
B. 70	Comparison of the effects of planting various off-type tubers				*					
B. 71	Soil treatment with sulphur for the control of common scab				*					
B. 72	Transmissibility of degeneration disease by means of tuber grafts				*					
B. 73	Experiments with size of seed				*					
B. 74	Stem-end browning				*					
B. 75	Study of a serious rot found in New Brunswick and Prince Edward Island grown potatoes				*					
B. 76	A study of stolen rot affecting potatoes in the maritime provinces				*					
B. 77	A study of the transmission, overwintering, and control of black leg disease of potatoes				*					
B. 79	Study of the effect of growing potatoes in soils of various textures upon the production of off-type tubers				*					
B. 82	Value of Bordeaux mixture in controlling late blight					*				
B. 83	Identity, transmission, variations, and control of degeneration diseases of potatoes					*				
B. 84	Control of common scab of potatoes by seed treatment and by soil treatment with sulphur					*				
B. 151	Comparisons of different varieties of potatoes from different sources using certified seed; noting purity, yield, and freedom from diseases								*	
B. 152	Amount of disease in uncertified seed from different sources, noting yield, etc								*	
B. 153	Comparisons of yield between certified seed and uncertified seed								*	
B. 154	Determination of varieties								*	
B. 155	Stem end discoloration of seed								*	
B. 156	Seed from plants affected with black leg								*	
B. 157	Seed from plants affected with leaf roll								*	
B. 158	Seed affected by poor storage								*	

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	VEGETABLE DISEASE INVESTIGATIONS									
B. 29	Control of celery blight	*								
B. 63	Resistance of varieties of turnips to club-root			*						
B. 81	Club root of turnips				*					
B. 87	Varietal resistance of beans to anthracnose					*				
B. 88	Studies in field and seed transmission of bean mosaic					*				
B. 150	Bacterial diseases of tomatoes									*

NOTE.—For Botanical Surveys, see Division of Agrostology, No. 278.
NOTE.—See Tobacco Division for tobacco diseases.

Project No.		Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Ft. Vermilion	Sub-stations
	CLASSIFICATION																											
Ce. 100	Systematic classification and description of Cereal varieties	*																										
	COOKING TESTS																											
Ce. 77	Cooking tests of varieties of peas	*						*																				
Ce. 78	" " peas grown on different soils							*																				
Ce. 79	" " " in different localities	*																										
Ce. 80	" " varieties of beans	*																										
Ce. 81	" " beans grown on different soils	*																										
Ce. 82	" " " in different localities	*																										
	DATES OF SEEDING																											
Ce. 49	Dates of seeding varieties of cereals	*															*	*										
Ce. 65	Fall sowing of spring wheat																*											
Ce. 66	" " oats																*								*			
Ce. 67	" " barley																*								*			
Ce. 68	" " peas																								*			
	EXPERIMENTAL METHODS																											
Ce. 74	Investigation of methods of obtaining accurate data in variety tests	*	*					*										*										
Ce. 97	Methods of seeding experimental plots	*						*																				

Project No.		Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Ft. Vermilion	Sub-stations
	ISOLATION OF SUPERIOR STRAINS BY SELECTION																										
Ce. 13	Spring wheat—Isolation of superior strains by selection from old sorts	*	*	..	..	*	..	*	..	..	..	..	..	..	*	*	*	..	*	..	*	..	..	..	..	*	..	..
Ce. 14	Emmers and Spelt " " " "	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 15	Durum wheats " " " "	*	..	..	..	..	..	..	..	..	..	..	..	..	*	*	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 16	Winter wheats " " " "	*	*	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 17	Oats " " " "	*	*	..	..	..	..	*	*	..	..	..	..	..	..	*	..	..	*	..	..	..	..	..	..	..	..	..
Ce. 18	Barley " " " "	*	*	..	*	*	..	*	*	..	..	..	..	..	..	*	..	..	*	*	*	..	..	..	..	*	..	..
Ce. 19	Field peas " " " "	*	..	..	..	..	*	*	..	..	..	..	..	*	..	*	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 20	Field beans " " " "	*	..	..	..	..	..	..	*	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 21	Flax " " " "	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 22	Spring rye " " " "	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..
Ce. 23	Winter rye " " " "	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 24	Buckwheat " " " "	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	MILLING AND BAKING TESTS																										
Ce. 83	Milling and baking tests of varieties of wheat	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 84	" " " wheats cut at different stages of maturity	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 85	Study of baking methods	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 86	" milling methods	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 87	" yeasts and ferments	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 88	" effect on bread of various ingredients added to flour	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 89	Baking studies of stored, damaged or bleached flour	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 90	Milling and baking studies of stored, damaged or frozen wheat	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 91	Baking studies with wheat substitutes in bread making	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 92	Study of inheritance of "baking strength" in wheat	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ce. 93	Improvement and construction of apparatus used in experimental milling and baking	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	MISCELLANEOUS																											
Ce. 50	Production of registered grain	*	*		*	*	*	*	*			*	*	*	*	*	*	*	*	*	*							
Ce. 52	Determination of percentage hull in oat varieties	*						*																				
Ce. 57	Adapting, designing, inventing and constructing machinery and apparatus for cereals	*																	*									
Ce. 62	Tests of farmers' seed grain	*	*			*								*	*	*	*	*	*		*							
Ce. 63	Smut treatment of hulless oats	*																										
Ce. 73	Co-operative testing of different varieties of cereals	*																										
Ce. 75	Influence of source of seed on date of maturity, yield, etc	*																										
Ce. 76	Seed selection, comparison of selected and unselected seed	*						*							*													
Ce. 94	*Barley, test of varieties for hay and for grain																					*						
Ce. 95	Cleaning of grain commercially	*				*															*							
Ce. 98	Comparisons of dockage in cleaning varieties of cereals for seed	*																										
Ce. 101	Study of the genetics of "Rogues"	*																										
Ce. 102	Investigations in connection with the Advisory Board of the Seed Act	*																										
Ce. 103	Test of purity of Elite Stock seed from producers	*																										
Ce. 106	Bi-Stimulation of seed wheat	*													*	*		*										
Ce. 107	Buckwheat—studies in fertilization	*				*																						
	PRODUCTION OF SUPERIOR VARIETIES BY CROSSING																											
Ce. 25	Spring wheats—production of superior varieties by crossing	*													*													
Ce. 26	Emmers and spelt " " "	*																										
Ce. 27	Durum wheats " " "	*																										
Ce. 28	Winter wheats " " "	*																										
Ce. 29	Oats " " "	*													*													
Ce. 30	Barley " " "	*													*													
Ce. 31	Field peas " " "	*																										
Ce. 32	Field beans " " "	*																										
Ce. 33	Flax " " "	*																										
Ce. 34	Spring rye " " "	*																										
Ce. 35	Winter rye " " "	*																										
Ce. 36	Buckwheat, " " "	*																										
	STUDY OF NATURAL CROSSING																											
Ce. 53	Study of natural crossing in wheat	*																								*		
Ce. 54	" " oats	*																										
Ce. 55	" " barley	*	*		*																*							
Ce. 56	" " peas	*																										

*The crop is cut early for hay and the after-growth comes on and produces a crop of grain.

CEREALS—Concluded

Project No.	—	Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Ft. Vermilion	Sub-stations
	TESTS OF DIFFERENT KINDS OF GRAIN GROWN IN COMBINATION																											
Ce. 58	Tests of flax and wheat in combination for grain	*													*	*	*	*	*									
Ce. 59	" peas and oats in combination for grain							*							*			*						*				
Ce. 60	" barley and oats in combination for grain	*			*	*		*	*								*											
Ce. 61	" barley, oats and wheat in combination for grain				*	*		*	*								*											
	TESTS OF VARIETIES OR STRAINS																											
Ce. 1	Common spring wheat—Tests of varieties or strains	*	*	*	*	*	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ce. 2	Emmers and spelt " " "	*													*			*		*								
Ce. 3	Durum wheats " " "	*													*	*		*	*									
Ce. 4	Winter wheats " " "	*		*					*			*	*		*	*		*	*	*	*		*		*	*		
Ce. 5	Oats " " "	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ce. 6	Barley " " "	*	*	*	*	*	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ce. 7	Field peas " " "	*	*	*	*	*	*	*	*		*		*	*	*	*	*	*	*	*	*	*		*	*	*	*	
Ce. 8	Field beans " " "	*				*	*	*	*		*		*	*	*	*	*	*		*			*	*				
Ce. 9	Flax, test of varieties or strains	*	*		*		*	*					*	*	*	*	*		*	*	*					*	*	
Ce. 10	Spring rye, test of varieties or strains	*		*			*				*		*		*		*			*	*					*	*	
Ce. 11	Winter rye " " "	*		*					*				*		*	*	*		*	*	*					*		
Ce. 12	Buckwheat " " "			*	*	*							*		*					*	*					*		
Ce. 96	Hemp " " "	*																										
Ce. 69	Test of varieties of peas and oats for hay	*																										
Ce. 70	" " oats for hay	*																										
Ce. 71	" " barley for hay	*																										
Ce. 72	" " peas for hay	*																										
Ce. 104	Vetch, variety test												*															
Ce. 105	Variety testing of sunflowers for seed												*															

	RATES OF SEEDING	
Ce. 37	Common spring wheats—Rates of seeding varieties	*
Ce. 38	Emmers and spelt " "	*
Ce. 39	Durum wheats " "	*
Ce. 40	Winter wheats " "	*
Ce. 41	Oats " "	*
Ce. 42	Barley " "	*
Ce. 43	Peas " "	*
Ce. 44	Beans " "	*
Ce. 45	Flax " "	*
Ce. 46	Spring rye " "	*
Ce. 47	Winter rye " "	*
Ce. 48	Peas and oats for hay " "	*

NOTE.—See Division of Botany for cereal disease investigations.

CHEMISTRY

	EXPERIMENTS WITH FERTILIZERS	
	Apple Orchard—	
C. 13	Fertilizers for apple orchards	*
	(1) Comparison of different sources of nitrogen, phosphoric acid and potash in varying combinations.	
	(2) Fertilizer ingredients in varying proportions.	
	(3) At different dates.	
	(4) Nitrate of soda at varying rates with and without phosphoric acid and potash.	
C. 99	Orchard fertilizers for a young apple orchard	*
C. 143	Malagash salt as an orchard fertilizer	*
	Field Crops—	
C. 12	Distribution of various fertilizer applications throughout a three-year rotation	*
C. 26	Basic slag, fortified vs. Bessemer or field crops, 1925	* * * * * *
C. 39	Commercial fertilizers for field crops on prairie soils	* *
C. 75	The influence of nitrate of soda on oats, rape and grass	*
C. 80	Sulphur as a fertilizer	*
C. 101	The effect on crop yields of mercuric chloride application to the soil	*

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	EXPERIMENTS WITH FERTILIZERS—Concluded																											
	Field Crops—Concluded																											
C. 104	The effect of gypsum and sulphur applications to a three-year rotation of potatoes, grain and hay	*	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
C. 109	The effect of gypsum, sulphur and lime on the pea crop	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..
C. 110	Fertilizers applied on different dates under dry seasonal conditions	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	*	..	..	..
C. 130	Malagash salt as a fertilizer for roots and grain	..	*	*	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
C. 131	Fertilizers for hemp	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
C. 138	The value of various sources of phosphoric acid where applied without nitrogen or potash	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
C. 142	Ephos basic phosphate—its value as a source of phosphoric acid	..	*	*	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
C. 158	Barnyard manure and commercial fertilizer, applied in drills for the mangel crop	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..
	Market Garden Crops—																											
C. 5	Growing of potatoes under different fertilizer treatments	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
C. 8	Fertilizer formulae for potatoes at different rates of application	..	*	..	*	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
C. 50	Fertilizer experiment with potatoes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..
C. 105	Sources of organic matter in market garden work	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
C. 106	Fertilizers for carrot crops	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
C. 107	Fertilizers for beet crops	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
C. 108	Fertilizers for onion crops	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
C. 149	Barnyard manure and green manuring (1) alone, (2) in conjunction with commercial fertilizers for the irrigated soils of the Okanagan Valley, B.C.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..
C. 157	Commercial fertilizers for the cantaloupe and tomato crops in the Okanagan Valley	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..
	Miscellaneous—																											
C. 55	The examination of samples of fertilizers submitted by farmers	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	Pasture and Hay Lands—																											
C. 25	Nitrate of soda as a top dressing for hay lands					*																						
C. 40	The effect of basic slag on the composition and yield of meadows and pastures			*				*																				
C. 96	Value of basic slag on pastures as determined by the gain in weight of stock grazed thereon					*																						
C. 98	Fertilizers for pastures					*																						
	Small Fruits—																											
C. 144	Nitrate of soda for the strawberry crop			*																								
	Soil Amendments—																											
C. 15	Fertilizers with and without ground lime			*																								
C. 23	Ground limestone at different rates per acre			*																								
C. 33	A comparison of lime and ground limestone as soil amendments							*																				
C. 78	Ground limestone versus basic slag				*																							
C. 102	Magnesian vs. calcitic ground limestone	*		*	*																							
C. 114	Testing lime in combination with various fertilizers					*																						
C. 132	Fertilizers, lime and ground limestone on heavy clays						*																					
C. 139	Waste lime and ground limestone experiment					*																						
C. 155	Comparison of different sources of lime for agricultural purposes					*																						
C. 156	The effect of slaked lime on the physical condition of soil under irrigation																			*								
	NOTE.—See project No. 128 under Div. of Agrostology.																											
	FEEDING STUFFS AND FODDERS, INVESTIGATIONAL WORK																											
C. 54	Examination of feeding stuffs for farmers	*																										
C. 76	Potato planting—the influence of early planting on the quality and yield of potatoes	*																								*		
C. 87	Feeding values of oats and barley cut for hay at different stages of growth	*																										
C. 88	Corn for silage—value of the more commonly grown varieties	*																										
C. 89	Sunflower silage: best stages at which to cut	*																										
C. 90	Moisture content of hays	*																										
C. 91	Value of clover hay under various treatments	*						*																				
C. 92	Condimental foods and cattle tonics	*																										
C. 93	Feeding Stuffs Act investigatory work	*																										
C. 94	Determination of the acre value in nutrients of various forage crops and of the same crops at different stages of growth	*																										
C. 95	Effect of irrigation on the composition of oats, peas, barley and wheat	*																										
C. 133	The determination of the nutritive value of the kernel in different varieties of oats	*	*																									
C. 135	The determination of the cumarin content of different varieties of sweet clover	*																										
C. 153	Analysing different silage crops														*													
C. 154	Stage of cutting oats for annual hay crop														*													
	See also Animal Husbandry and Field Husbandry.																											

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	MISCELLANEOUS INVESTIGATORY WORK																											
C. 10	Sugar beets for factory purpose	*	*																									
C. 11	Agricultural meteorology	*	*	*	*	*	*	*																				
C. 51	Water supplies for farm homesteads	*																										
C. 56	Meat and canned foods investigatory work	*																										
C. 77	Cause of the breakdown in Jonathan apples	*																										
C. 136	Investigatory work with insecticides and fungicides	*																										
C. 137	Feeding value of field roots: mangels, carrots and turnips	*																										
C. 141	Investigatory work in dehydration of fruits and vegetables	*																										
C. 152	Weed extermination by chemicals. (See also Botany)														*													
	SOIL INVESTIGATIONAL WORK																											
C. 42	The influence of grain growing on the nitrogen and organic matter content of western prairie soils														*			*		*	*							
C. 53	General soil laboratory work for farmers	*																										
C. 82	Depletion of plant food on cropped and unmanured soils															*												
C. 83	The analyses and examination of soils of Prince Edward Island	*																										
C. 84	Peace River soil investigatory work	*																								*		
C. 85	British Columbia investigatory work (Prince George District, B.C.)	*																										
C. 86	Northern Ontario soil investigatory work	*											*															
C. 145	The collection and analyses of soils from apple orchards at Rougemont, Abbotsford and Chateauguay, Que., in co-operation with the Division of Horticulture	*																										
C. 146	The analyses of soils and twigs of apple trees for the Horticultural Division in connection with greenhouse work	*																										
C. 147	The residual effect of various grasses and grass mixtures on subsequent grain crops	*																										

Note.—See also Div. of Horticulture and Field Husbandry.
For fertilizers for tobacco, see Tobacco Div.

FIBRE PRODUCTION

	FLAX																											
E. 3	Variety tests with flax	*	*	*	*	*	*		*		*		*											*	*			
E. 5	Methods of seeding flax	*		*	*		*				*																	
E. 7	Dates of seeding flax	*	*	*	*	*	*		*		*		*											*	*			
E. 9	Rates of seeding flax	*		*	*		*																					
E. 11	Sources of flax seed	*																										
E. 13	Fertilizer tests with flax	*		*			*																					
E. 15	Harvesting flax at different stages of maturity	*		*	*																							
E. 17	Retting tests with flax. (See Div. of Bacteriology No. 1)	*		*																								
E. 19	Tests with mechanical flax puller	*																										
E. 20	Tests with mechanical flax deseeder	*																										
E. 21	Tests with mechanical flax lifter	*																										
E. 22	Tests with mechanical flax scutcher	*		*			*																					
E. 26	Cost of producing flax	*		*		*																						
E. 28	Spinning tests, flax	*																										
E. 30	Grading flax	*																										
E. 32	Marketing flax	*																										
E. 35	Extension work with flax	*																										
	HEMP																											
E. 2	Soil suitability for hemp			*					*																			
E. 4	Variety tests with hemp	*	*	*	*	*	*		*		*		*		*	*				*				*	*			
E. 6	Methods of seeding hemp	*		*					*																			
E. 8	Dates of seeding hemp	*	*	*	*	*	*		*		*		*		*	*				*				*	*			
E. 10	Rates of seeding hemp	*		*					*																			
E. 12	Sources of hemp seed	*																										
E. 14	Fertilizer tests with hemp	*		*					*																			
E. 16	Harvesting hemp at different stages of maturity	*		*	*				*																			
E. 18	Retting tests with hemp														*	*				*								
E. 23	Tests with mechanical hemp harvester	*																										
E. 24	Tests with mechanical hemp lifter	*																										
E. 25	Tests with mechanical hemp scutcher	*																										
E. 27	Cost of producing hemp	*		*		*			*																			
E. 29	Spinning tests, hemp	*																										
E. 31	Grading hemp	*																										
E. 33	Marketing hemp	*																										
E. 34	Sowing hemp for seed			*								*											*		*			
E. 36	Extension work with hemp	*																										

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	ROTATION EXPERIMENTS																											
	Eastern and B. C. Farms																											
F. 1	Three-year rotation—corn; oats; clover	*		*																								
F. 2	Three-year rotation—sunflowers; oats; clover										*		*															
F. 3	Three-year rotation—roots; oats; clover				*																							
F. 4	Three-year rotation—potatoes; oats; clover					*	*															*						
F. 6	Three-year rotation—potatoes; fall rye; sweet clover	*							*																			
F. 7	Three-year rotation—sunflowers and corn; wheat; clover						*																					
F. 8	Three-year rotation—potatoes and sunflowers; oats· clover					*																						
F. 9	Three-year rotation—roots; winter wheat: hay																								*			
F. 10	Four-year rotation—corn; oats; clover: timothy	*		*					*																			
F. 11	Four-year rotation—sunflowers: oats; clover; timothy										*		*															
F. 12	Four-year rotation—roots; oats; clover; timothy				*			*																				
F. 13	Four-year rotation—potatoes; oats; clover; timothy					*																						
F. 14	Four-year rotation—potatoes; wheat; clover; timothy		*																									
F. 15	Four-year rotation—corn, sunflowers, turnips and O.P.V.; oats; clover; timothy				*																							
F. 16	Four-year rotation—corn, sunflowers and roots; wheat; clover; timothy						*																					
F. 17	Four-year rotation—Roots; oats; clover; barley		*																									
F. 18	Four-year rotation—oats; clover; timothy; timothy			*		*			*																			
F. 19	Four-year (or combination) rotation—potatoes; wheat; peas; alfalfa down permanently																					*						
F. 20	Four-year rotation—corn, sunflowers, roots and potatoes; oats or oats and peas: clover; pasture																							*				
F. 21	Four-year rotation—corn; wheat, oats and vetches; winter wheat; peas																								*			
F. 22	Four-year rotation—roots; peas; winter wheat; clover																								*			
F. 23	Four-year rotation—potatoes; oats; hay; wheat, oats and vetches																								*			
F. 25	Five-year rotation—corn; oats; clover; timothy; oats	*		*																								
F. 26	Five-year rotation—corn; barley; clover; timothy; oats								*																			
F. 27	Five-year rotation—sunflowers; barley; clover; timothy; oats										*		*															
F. 28	Five-year rotation—potatoes; barley; clover; timothy; oats					*																						
F. 29	Five-year rotation—potatoes; wheat; clover; oats; clover		*																									

F. 30	Five-year rotation—roots; wheat; clover; timothy; O.P.V.						*																				
F. 31	Five-year rotation—roots; oats; clover; timothy; barley		*																								
F. 33	Five-year rotation—roots; oats; clover; timothy; oats				*			*																			
F. 34	Five-year rotation—oats; barley; clover; timothy; timothy	*																									
F. 37	Five-year rotation—summerfallow; fall wheat; clover; timothy; oats										*		*														
F. 38	Five-year rotation—corn; peas; wheat; timothy or western rye; vetches																								*		
F. 39	Six-year rotation—potatoes; wheat; barley; clover; timothy; timothy										*		*														
F. 40	Six-year rotation—sunflowers; barley; clover; timothy; timothy; oats					*																					
F. 41	Six-year rotation—corn; barley; clover; timothy; timothy; oats								*																		
F. 42	Six-year rotation—roots; oats; clover; timothy; timothy; timothy							*																			
F. 43	Six-year rotation—sunflowers; peas; alfalfa; alfalfa; potatoes; oats																					*					
F. 44	Six-year rotation—potatoes; oats; wheat; clover and grasses; clover and grasses; peas																					*					
F. 45	Seven-year rotation—roots; wheat; clover; timothy; timothy; timothy; oats		*																								
F. 46	Six-year rotation—Grain and five years in hay							*																			
F. 47	Combination rotation—Five years in alfalfa and a three-year rotation of potatoes and corn; O.P.V.; clover	*																									
F. 95	Three-year rotation—oats; clover; timothy				*																						
F. 97	Continuous crops	*																									
F. 309	Two-year rotation—oats; clover			*																							

ROTATION EXPERIMENTS

Prairie Farms

F. 101	Wheat continuously																	*	*	*							
F. 102	Alfalfa continuously																				*						
F. 103	Alfalfa continuously (irrigated)																			*							
F. 104	Brome grass continuously																				*						
F. 105	Two-year rotation—summerfallow; wheat																	*	*	*							
F. 106	Two-year rotation—summerfallow; fall rye																		*								
F. 107	Three-year rotation—summerfallow; wheat; wheat															*	*	*	*	*	*						
F. 108	Three-year rotation—summerfallow; wheat; half oats and half sweet clover																	*									
F. 109	Three-year rotation—summerfallow; wheat; fall rye																	*									
F. 110	Three-year rotation—wheat; wheat; sweet clover																				*						
F. 111	Three-year intertilled rotation—wheat; wheat; wheat in rows																				*						
F. 112	Three-year rotation—silage and root crops; oat green feed; pasture																				*						
F. 113	Four-year rotation—summerfallow; wheat; wheat; oats													*	*						*						
F. 114	Four-year rotation—half area summerfallow and half area wheat intertilled; wheat: grain seeded to sweet clover; sweet clover pasture																	*									
F. 115	Four-year rotation—summerfallow; wheat; oat green feed; fall rye																				*						
F. 116	Four-year rotation—corn and sunflowers; wheat; hay; oats and peas													*													

NOTE.—For rotations with tobacco see Tobacco Div.

Project No.		Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Ft. Vermilion	Sub-stations
	ROTATION EXPERIMENTS—Concluded																											
	Prairie Farms—Concluded																											
F. 117	Five-year rotation—summerfallow; wheat; wheat; oats seeded to sweet clover; hay																			*								
F. 118	Five-year rotation—corn; wheat; oats; barley; sweet clover; hay																*											
F. 119	Five-year rotation—sunflowers; wheat; hay; hay; oat green feed																				*							
F. 120	Five-year rotation—corn; oats or barley; hay, wheat, wheat														*													
F. 121	Six-year rotation—summerfallow; wheat; hay; hay; wheat; oats														*						*							
F. 122	Six-year rotation—summerfallow; wheat; wheat; oats; hay; hay or pasture																*	*		*								
F. 123	Six-year rotation—sunflowers and corn; wheat; oats; hay; hay; wheat																*			*								
F. 124	Six-year rotation—corn; wheat; wheat; oats or barley; hay; hay													*														
F. 125	Six-year rotation—summerfallow; winter wheat; oats; summerfallow; mixture of oats and peas; oats																			*								
F. 126	Six-year rotation—corn; wheat; barley; hay; pasture; pasture																				*							
F. 127	Six-year rotation—corn; wheat; hay; hay; wheat; oats														*	*												
F. 128	Six-year rotation—wheat; oats; barley; hay; hay; hay																				*							
F. 129	Seven-year rotation—corn; wheat; hay; pasture and summerfallow; wheat; summerfallow; fall rye																		*									
F. 130	Seven-year rotation—potatoes or roots; wheat; oats; summerfallow; wheat; hay; pasture																				*							
F. 131	Eight-year rotation—corn; barley; hay; hay; hay; hay and break; wheat; oats															*												
F. 132	Eight-year rotation—summerfallow; wheat; wheat; summerfallow; sunflowers; barley; hay; pasture																	*										
F. 133	Eight-year rotation—summerfallow; wheat; wheat; summerfallow; turnips and sunflowers; barley; hay; pasture																*											
F. 134	Eight-year rotation—summerfallow; wheat; oats; annual pasture; corn; wheat; hay; pasture														*													
F. 135	Nine-year rotation—summerfallow; wheat; oats; hay; hay; hay; corn, wheat; oats															*												
F. 136	Nine-year rotation—summerfallow; sunflowers and turnips; wheat oats; summerfallow; wheat; oats; hay; pasture																*											
F. 137	Nine-year rotation—summerfallow; corn; fall rye; summerfallow; spring wheat; oats; summerfallow; peas and oats; hay; spring wheat																			*								
F. 138	Ten-year rotation—corn; oats; barley; alfalfa for 5 years; wheat; wheat														*													

F. 139	Ten-year rotation—summerfallow; winter wheat; oats or barley; summerfallow and seeding alfalfa; alfalfa seed for 3 years; summerfallow; corn; spring wheat																			*								
F. 140	Ten-year rotation (irrigated)—sugar beets: wheat; oats; barley; alfalfa for 6 years																			*								
F. 141	Fifteen-year combination rotation—corn; wheat; oats; peas; barley; alfalfa for 10 years																			*								
F. 142	Sequence of crops																		*									
F. 143	Sequence of crops (irrigated)																			*								
F. 214	Six-year rotation—corn; oats; oats; barley; hay; hay													*														
F. 215	Four-year rotation—summerfallow; fall rye; wheat; half oats and half fall rye													*														

CULTURAL EXPERIMENTS

Eastern and British Columbia Farms

F. 48	Preparation of land for grain—(Related project on Prairie Farms F150)	*	*		*				*															*				
F. 49	Preparation of land for silage crops	*		*	*			*	*															*				
F. 50	Preparation of land for root and potato crops	*			*																			*				
F. 51	Width of ploughing	*																										
F. 52	Depth of ploughing—(Related project on Prairie Farms F148)	*	*		*				*																			
F. 53	Dates of seeding grain crops—(Related project on Prairie Farms F155)					*							*															
F. 54	Dates of seeding hay crops								*																			
F. 55	Dates of seeding silage crops	*			*								*															
F. 56	Depth of seeding		*																									
F. 57	Growing corn in hills vs. drills					*																						
F. 58	Rates of seeding grain crops—(Related project on Prairie Farms F161)					*																						
F. 59	Rates of seeding hay crops	*	*																									
F. 60	Rates of seeding silage crops												*															
F. 61	Rates of seeding and kinds of nurse crops		*		*	*																						
F. 62	Distance between rows of sunflowers and plants in the row	*			*								*															
F. 64	Treatment of neglected land		*																									
F. 65	Methods of cultivating corn for silage	*																										
F. 66	Land not ploughed, cultivated only	*																										
F. 67	Pasture renovation				*		*		*																			
F. 71	Methods of surface drainage										*		*															
F. 72	Tile drained vs. undrained land—(Related project on Prairie Farms F186)				*		*		*				*															
F. 73	Depths and distances apart of underdrains		*		*																							
F. 74	Types of underdrains (stone, pole, etc.)					*																						
F. 75	Irrigation of farm crops	*																				*	*					
F. 94	Renewing marsh land				*																							
F. 96	Eradication of farm weeds—(Related project on Prairie Farms F220)	*			*	*																						
F. 98	Influence of frequent cultivation on yield of corn	*																										
F. 99	Cultivation of alfalfa to improve stand	*																										
F. 100	Thinning roots at different distances—(Related project on Prairie Farms F180)	*				*																						
F. 300	Rates of seeding root crops	*																										
F. 306	Yield of oats following various silage and root crops			*																								
F. 307	Dates of seed root crops					*																						
F. 308	Methods of seeding sweet clover for hay production					*																						

Project No.		Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Fr. Vermilion	Sub-stations
	CULTURAL EXPERIMENTS—Concluded																											
	Prairie Farms																											
F. 144	Summerfallow treatment														*	*	*	*	*	*	*							
F. 145	Summerfallow substitutes														*	*	*	*	*	*								
F. 146	Stubble treatment														*	*	*	*	*	*								
F. 147	Breaking sod from cultivated grasses and clovers														*	*	*	*			*							
F. 148	Depth of ploughing—(Related project on Eastern and B. C. Farms F52)														*			*										
F. 149	Soil packers																*	*	*									
F. 150	Preparation of land for grain—(Related project on Eastern and B. C. Farms F48)														*													
F. 151	Preparation of land for corn														*				*									
F. 152	Preparation of land for sunflowers														*													
F. 153	Place in rotation to seed fall rye															*	*		*		*							
F. 154	Place in rotation to seed grasses and legumes																		*									
F. 155	Dates of seeding spring grain crops—(Related project on Eastern and B. C. Farms F53)																*	*		*						*		
F. 156	Dates of seeding corn and sunflowers														*	*	*	*	*		*					*		
F. 157	Dates of seeding fall rye														*	*	*	*	*		*							
F. 158	Dates of seeding fall wheat														*													
F. 159	Date of seeding alfalfa														*				*									
F. 160	Date of seeding sweet clover														*	*			*									
F. 161	Rates of seeding spring grain crops—(Related project on Eastern and B. C. Farms F58)																*	*	*									
F. 162	Rates of seeding nurse crops														*	*												
F. 163	Rate of seeding fall rye														*				*									
F. 164	Rate of seeding sunflowers														*													
F. 165	Rate of seeding corn														*	*		*										
F. 166	Rates of seeding grasses and legumes														*		*					*						
F. 167	Method of seeding corn														*			*	*							*		

F. 168	Method of seeding sunflowers													*		*	*	*										
F. 169	Methods of seeding grasses and legumes													*	*	*	*	*		*								
E. 170	Seeding annual and biennial sweet clover in single, double and triple rows intertilled													*														
F. 171	Seeding alfalfa, annual and biennial sweet clover in rows at various distances apart													*	*													
F. 172	Kinds of nurse crops vs. no nurse crops for seeding grasses and legumes													*	*			*										
F. 173	Seeding grain with various types of drills																*											
F. 174	Depth of seeding grain crops													*		*												
F. 175	Depth of seeding grasses and legumes													*														
F. 176	Influence of cultural treatment on rust													*														
F. 177	Harrowing growing grain crops																*	*										
F. 178	Cultivation of corn													*														
F. 179	Cultivation of sunflowers													*	*													
F. 180	Thinning mangels to different distances—(Related project on Eastern and B. C. Farms F100)															*				*								
F. 181	Thinning sunflowers to different distances																			*					*			
F. 183	Yield of grain following corn and sunflowers															*												
F. 184	Winter protection of fall sown crops																*											
F. 186	Tile-drained vs. undrained land—(Related project on Eastern and B. C. Farms F72)																								*			
F. 187	Drainage of irrigated land to prevent alkali accumulation																		*									
F. 217	Dates of seeding grass and legume mixtures																	*										
F. 219	Deferred seeding																	*										
F. 220	Eradication of farm weeds—(Related project on Eastern and B. C. Farms F96)																	*										
F. 221	Date of seeding oats for green feed													*														
F. 222	Influence of stubble in protecting fall wheat seeding													*														

MANURE AND COMMERCIAL FERTILIZER EXPERIMENTS

Eastern and British Columbia Farms

F. 76	Quantities of manure and place in rotation of applying manure	*	*		*				*														*					
F. 77	Methods of applying manure				*								*															
F. 78	Green manure crops—(Related project on Prairie Farms F194)	*			*				*		*		*															
F. 79	*Manure or commercial fertilizers vs. no manure—(Related project on Prairie Farms F216)	*	*	*	*	*	*		*		*		*															*
F. 81	*Commercial fertilizers and manure for hay	*			*		*		*														*					
F. 82	*Commercial fertilizers for potatoes	*							*																			
F. 83	*Commercial fertilizers for root crops	*																					*					
F. 84	*Commercial fertilizers for silage crops	*							*														*					
F. 85	Use of lime	*	*						*		*		*															
F. 80	Rotted vs. fresh manure							*																				

Project No.		Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Ft. Vermilion	Sub-stations
	MANURE AND COMMERCIAL FERTILIZER EXPERIMENTS—Con.																											
	Prairie Farms																											
F. 189	Manure for wheat														*	*	*	*			*							
F. 190	Manure for barley																	*										
F. 191	Manure for oats														*			*										
F. 192	Manure for corn, sunflowers or potatoes														*	*	*	*			*							
F. 193	*Commercial fertilizers for field crops														*	*	*											
F. 194	Green manure crops—(Related project on Eastern and B. C. Farms F78)														*	*	*	*			*							
F. 216	Manure vs. no manure—(Related project on Eastern and B. C. Farms F79)														*													
F. 218	Manure for hay																*											
	FARM MANAGEMENT EXPERIMENTS																											
	Eastern and British Columbia Farms																											
F. 69	Methods and cost of clearing land			*		*			*				*															
F. 86	Yield and profit from various grain crops	*	*				*																					
F. 87	Yield and profit from various hay crops	*	*																									
F. 88	Yield and profit from root and silage crops	*	*	*	*	*	*	*	*		*		*															
F. 89	Yield and profit from various potato crops	*																						*	*			
F. 90	Cost of operating tractor—(Related project on Prairie Farms F196)	*	*	*	*	*		*	*				*											*				
F. 91	Cost of producing farm crops—(Related project on Prairie Farms F195)	*	*	*	*	*	*	*	*		*		*									*	*	*	*			
F. 301	Farm machinery trials—(Related project on Prairie Farms F198)	*																										
	Prairie Farms																											
F. 195	Cost of producing farm crops—(Related project on Eastern and B. C. Farms F91)													*	*	*	*	*	*	*	*							
F. 196	Cost of operating tractor—(Related project on Eastern and B. C. Farms F90)													*	*	*	*	*	*	*	*							
F. 197	Cost of operating farm machinery																	*										
F. 198	Farm machinery trials—(Related project on Eastern and B. C. Farms F301)																		*									
F. 199	Yield and profit from various silage crops													*				*			*					*		

NOTE.—*For other fertilizers see Division of Chemistry.

MISCELLANEOUS EXPERIMENTS

Eastern and British Columbia Farms

F. 63 Cutting hay crops at different stages of maturity
F. 68 Annual pasture crops
F. 93 Fencing
F. 302 Methods of curing clover and alfalfa hay
F. 303 Hay caps of different types
F. 304 Methods of making silage from various crops
F. 305 Meteorological records—(Related project on Prairie Farms F228)

Prairie Farms

F. 182 Time of cutting sunflowers
F. 185 Shrinkage of corn and sunflowers after cutting
F. 224 Date of cutting rusted wheat
F. 225 Dates of cutting annual and biennial sweet clover
F. 226 Methods of storing and stacking sweet clover
F. 228 Meteorological records—(Related project on Eastern and B. C. Farms F305)
F. 236 Harvesting grain with combine

SOIL MOISTURE EXPERIMENTS

Prairie Farms

F. 200 Influence of various cultural treatments upon soil moisture as determined by moisture determinations
F. 201 Utilization of soil moisture by crop rotations grown in tanks
F. 202 Relative transpiration of crops grown in tanks
F. 203 Utilization of soil moisture by corn, sunflowers and potatoes grown in large tanks
F. 204 Drought resistance of crops grown in tanks
F. 205 Comparison between the growth of individual wheat plants in tanks and in the field
F. 206 Weeds and their effect on wheat in tank experiments
F. 207 Influence of rate of seeding wheat when grown in tanks
F. 208 Effect of mixed and undisturbed soil on crops grown in tanks
F. 209 Variation among individual plants of wheat, corn and sunflowers
F. 210 Effectiveness of soil mulches as measured by losses of water from soil in tanks
F. 211 Cultural experiments on soil in tanks
F. 212 Variations in moisture content of soil samples within a field plot
F. 213 Soil moisture as related to irrigation
F. 188 Water requirements of wheat (irrigated)

Project No.		Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Ft. Vermilion	Sub-stations
	SOIL MOISTURE EXPERIMENTS—Concluded																											
	Prairie Farms—Concluded																											
F. 223	Effect of cultivation on soil moisture conservation														*													
F. 229	Water requirements of brome grass (irrigated)																			*								
F. 230	Water requirements of potatoes (irrigated)																			*								
F. 231	Water requirements of mixed pasture grasses (irrigated)																			*								
F. 232	Water requirements of timothy (irrigated)																			*								
F. 233	Water requirements of sunflowers (irrigated)																			*								
F. 234	Water requirements of alfalfa (irrigated)																			*								
F. 235	Water requirements of sugar beets (irrigated)																			*								

NOTE.—See also Division of Chemistry for investigational work on Field Crops.

HORTICULTURE

	CANNING																											
	Small Fruits—																											
H. 449	Currant, black, jam, variety experiment	*																										
H. 450	" " jelly, variety experiment	*																										
H. 451	" red, jelly, "Certo" method	*																										
H. 452	" " " variety experiment	*																										
H. 453	Grape catsup, variety experiment	*																										
H. 454	" conserve, variety experiment	*																										
H. 455	" jam, variety experiment	*																										
H. 456	" jelly, variety experiment	*																										
H. 457	" spiced, variety experiment	*																										
H. 458	Raspberry, cold pack method, variety experiment	*																										
H. 459	" jam, variety experiment	*																										
H. 460	" jam, "Certo" method	*																										

H. 473	" jelly, best method of making	*
H. 461	Strawberry, cold pack, variety experiment	*
H. 462	" jam, variety experiment	*
H. 463	" jam, "Certo" method	*
H. 464	" jam, with red currant juice	*
	Tree Fruits—	
H. 465	Apple, crab, for jelly, variety experiment	*
H. 466	Cherry, cold pack method, variety experiment	*
H. 467	" sand, cold pack method, variety experiments	*
H. 468	Plum, cold pack method, variety experiment	*
H. 469	" jam, variety experiment	*
H. 470	" jelly, variety experiment	*
H. 448	Prunus tomentosa, cold pack method	*
	Vegetables—	
H. 439	Asparagus, cold pack method, variety experiment	*
H. 440	Beet, cold pack method, variety experiment	*
H. 441	Carrots, cold pack method, variety experiment	*
H. 471	Corn, cold pack method	*
H. 472	Corn on cob, cold pack method	*
H. 442	Peas, cold pack method, variety experiment	*
H. 443	Rhubarb, cold pack method, variety experiment	*
H. 444	" canning, cold water method	*
H. 445	" canning, in rhubarb juice	*
H. 556	" conserve, different methods of making	*
H. 446	" variety experiment for sauce	*
H. 447	Tomatoes, cold pack method, variety experiment	*

DEHYDRATION

	Small Fruits—	
H. 475	Currant, black, different methods of dehydrating	*
H. 476	" " for jelly	*
H. 477	" " variety experiment	*
H. 478	Gooseberry, different methods of dehydrating	*
H. 479	" variety experiment	*
H. 505	Grapes, for jelly	*
H. 480	Loganberry, for jelly	*
H. 481	Raspberry, different methods of dehydrating	*
H. 482	" for jam	*
H. 483	" variety experiment	*
H. 484	Strawberry, different methods of dehydrating	*
H. 485	" variety experiment	*

NOTE.—See Div. of Chemistry for investigational work.

Project No.		Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Ft. Vermilion	Sub-stations
	DEHYDRATION—Concluded																										
	Tree Fruits—																										
H. 486	Apple, apple sauce cake	*																									
H. 487	" crab, for jelly	*																									
H. 498	" for pies, apple sauce method	*																									
H. 499	" for pies, apple ring method	*																									
H. 500	" for apple sauce	*																									
H. 501	" for apple whip	*																									
H. 502	Cherry, different methods of dehydrating	*																									
H. 503	" pie experiment	*																									
H. 504	" variety experiment	*																									
H. 506	Peach, different methods of dehydrating	*																									
H. 507	" for pickles	*																									
H. 508	" pie No. 1	*																									
H. 509	" pie No. 2	*																									
H. 510	" for stewing	*																									
H. 511	" variety experiment	*																									
H. 512	Pear, for baking	*																									
H. 513	" different methods of dehydrating	*																									
H. 514	" pear chips	*																									
H. 515	" pear and pineapple marmalade	*																									
H. 516	" for pickles	*																									
H. 517	" for stewing	*																									
H. 518	" variety experiment	*																									
H. 519	Plum, different methods of dehydrating	*																									
H. 520	" for jam	*																									
H. 521	" variety experiment	*																									
H. 522	Prunes, different methods of dehydrating	*																									
H. 523	" for stewing	*																									
H. 524	" variety experiment	*																									

	Vegetables—																											
H. 558	Asparagus	*																										
H. 525	Bean, different methods of dehydrating	*																										
H. 526	" variety experiment	*																										
H. 527	Peas, different methods of dehydrating	*																										
H. 528	" variety experiment	*																										
H. 559	Rhubarb	*																										
	GREENHOUSE																											
	Flowers—																											
H. 220	Antirrhinum, variety experiment	*																										
H. 545	Begonia, tuberous, propagation in greenhouse																					*						
H. 495	Carnation, breeding																								*			
H. 222	Chrysanthemum, variety experiment	*		*																					*			
H. 223	Cineraria, variety experiment																						*					
H. 224	Cyclamen, variety experiment	*																										
H. 555	Ferns, variety experiment	*																										
H. 225	Geranium, breeding	*																										
H. 226	" variety experiment	*						*																				
H. 227	Hyacinth, variety experiment							*																				
H. 228	Narcissus, variety experiment	*						*											*									
H. 230	Primula malacoides, variety experiment	*																										
H. 232	Tulip, cottage, variety experiment							*																				
H. 233	" Darwin, variety experiment	*						*																				
H. 234	" early, variety experiment							*																				
H. 492	Return per square foot of space, different crops																								*			
	Pomology—																											
H. 256	Fruit, breeding	*																										
H. 257	Grape, variety experiment													*														
	Vegetables—																											
H. 241	Cucumber, breeding	*																										
H. 242	" cost of production	*																										
H. 243	" distances apart	*																										
H. 245	" variety experiment																								*			
H. 247	Lettuce, cabbage, variety experiment	*																										
H. 236	Muskmelon, variety experiment																								*			
H. 194	Rhubarb, forcing		*	*				*			*									*					*			
H. 319	Sea Kale, Forcing		*											*								*						
H. 251	Tomato, breeding	*																										
H. 253	" pots vs. benches or beds													*														
H. 255	" variety experiment	*		*										*											*			

Note.—See Div. of Chemistry for investigational work.

Project No.		Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Ft. Vermilion	Sub-stations
	ORNAMENTAL GARDENING																											
	Flowers—																											
H. 284	Annuals, autumn vs. spring sowing							*							*													
H. 259	" as border plants													*														
H. 260	" self seeding													*														
H. 258	" sown in hothouse or hotbed vs. sown in the open							*						*														
H. 261	" variety experiment	*	*	*	*		*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
H. 394	" preliminary testing of varieties of strains							*																				
H. 380	Antirrhinum, variety experiment							*			*												*	*		*		
H. 551	Aquilegia, breeding	*																										
H. 263	Aster, annual, variety experiment		*				*				*		*	*		*						*	*	*		*		
H. 262	Aster, perennial, variety experiment	*	*																									
H. 265	Bulbs, B.C. vs. Holland grown		*										*	*														
H. 434	" for indoor flowers, forcing																*	*										
H. 266	Canna, variety experiment																						*					
H. 267	Crocus, variety experiment	*						*					*		*									*				
H. 570	Daffodil fly, control of																							*				
H. 268	Dahlia, variety experiment	*	*					*							*								*					
H. 269	Everlasting flowers, variety experiment							*						*									*			*		
H. 554	Ferns, variety experiment	*																										
H. 270	Freesia, variety experiment												*															
H. 271	Geranium, variety experiment	*		*															*							*		
H. 272	Gladiolus, variety experiment	*	*					*			*			*	*								*	*		*		
H. 433	" growing commercially							*																				
H. 493	" breeding																								*			
H. 571	" producing from bulblets							*																				
H. 274	Herbaceous Perennials, variety experiment	*	*	*	*		*	*	*				*	*	*	*	*	*		*	*	*	*	*			*		
H. 539	" " improvement of flowering perennials								*																				
H. 275	Hyacinth, variety experiment		*				*	*			*		*		*				*			*	*		*			
H. 548	Iris, breeding	*																										
H. 276	" variety experiment	*	*					*						*	*								*	*		*		
H. 293	Lawn, weed control							*																		*		
H. 549	Lily, breeding	*																										
H. 573	Lilium, propagation by seed	*																										

H. 277	" variety experiment	*						*																				
H. 278	Narcissus, variety experiment	*	*				*	*			*		*		*					*		*	*	*	*	*		
H. 572	" breeding	*																										
H. 392	" growing commercially							*																				
H. 280	Paeony, variety experiment	*	*					*					*	*	*								*			*		
H. 544	Pansy, breeding																					*						
H. 281	Phlox, Perennial, variety experiment	*	*					*						*	*								*			*		
H. 283	Seed, home grown vs. imported							*																				
H. 286	Snowdrop, variety experiment																						*					
H. 287	Sweet Pea, variety experiment	*	*					*			*		*	*	*				*				*	*		*		
H. 330	" different methods of seed production																								*			
H. 357	" studies in seed production																								*			
H. 560	" breeding																						*					
H. 561	" crossing																						*					
H. 562	" intensity of colour																						*					
H. 289	Tulips, producing tulip bulbs																			*								
H. 290	" treated as annuals, variety experiment	*					*	*			*			*	*		*	*	*	*		*	*	*	*			
H. 291	" treated as perennials, variety experiment	*	*										*	*					*							*		
H. 427	" growing commercially							*																				
H. 377	Wild flowers, variety experiment							*													*							
	Trees and Shrubs—																											
H. 294	Berberis, breeding	*																										
H. 295	Climbing woody plants	*												*												*		
H. 296	Forest trees, growth under different conditions in forest belt	*																										
H. 297	Forest trees, treatment for insects	*																										
H. 299	Ornamental trees, growth records	*									*																	
H. 298	Hedges, variety experiment	*	*				*	*	*				*	*	*	*		*			*	*	*	*		*		
H. 350	Holly, variety experiment																								*			
H. 553	Honeysuckle, breeding	*																										
H. 376	Ornamental trees, ornamental evergreen trees and shrubs, variety experiment			*																	*		*			*		
H. 300	Philadelphus, variety experiment	*																					*					
H. 282	Propagation, propagating trees and shrubs by cuttings	*											*										*					
H. 552	Pyrus, (apple) breeding for ornamental purposes	*																										
H. 491	Rhododendron, breeding																								*			
H. 301	Rose, treatment for disease	*																										
H. 302	" variety experiment	*	*	*		*		*					*	*	*								*	*				
H. 303	" climbers, variety experiment	*	*					*															*					
H. 304	" winter protection	*	*																									
H. 324	" propagation																											
H. 435	" fall vs. spring planting							*																				
H. 494	" breeding																								*			
H. 550	Syringa, breeding	*																										
H. 305	" variety experiment	*	*					*					*	*									*			*	*	
H. 307	Trees and shrubs, ornamental and shelter, variety experiment		*	*		*		*	*				*	*	*	*	*	*	*	*	*	*	*	*		*	*	

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	POMOLOGY																											
	Small Fruit—																											
H. 1	Blackberry, breeding	*																										
H. 2	" variety experiment	*					*		*					*									*		*			
H. 327	Blueberry, variety experiment	*																							*			
H. 424	" cultivation of wild bushes										*																	
H. 3	Currant, breeding (Black, Red, White)	*							*																			
H. 4	" variety experiment (Black, Red, White)	*	*	*	*	*	*		*		*		*	*	*	*	*	*		*	*	*	*	*	*	*	*	
H. 348	" spraying experiment																								*			
H. 328	Dewberry, variety experiment																											
H. 5	Gooseberry, breeding	*						*																				
H. 6	" variety experiment	*	*	*	*	*	*	*	*		*		*	*	*	*	*	*		*	*	*	*	*	*	*	*	
H. 37	Grape, breeding	*												*														
H. 38	" pollination	*																										
H. 40	" variety experiment	*		*		*								*								*	*		*	*		
H. 325	Loganberry, training experiment																							*	*			
H. 347	" spraying experiment																								*			
H. 490	" breeding																								*			
H. 7	Raspberry, autumn vs. spring planting													*														
H. 8	" breeding	*						*						*							*							
H. 9	" growing commercially												*	*														
H. 10	" protection vs. no protection for winter	*																										
H. 11	" variety experiment	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*		*	*	*	*	*	*	*	*	
H. 429	" fertilizer experiment	*																										
H. 538	" pruning experiment	*																										
H. 12	Strawberry, autumn vs. spring planting																*											
H. 13	" breeding	*						*	*												*				*			
H. 14	" bud heredity	*																										
H. 15	" growing commercially												*	*			*											
H. 16	" hill system vs. matted row							*																	*			
H. 18	" plant age and yield correlation	*																										
H. 19	" protection vs. no. protection for winter																									*		

H. 20	" runners and yield correlation	*																						*				
H. 21	" variety experiment	*	*	*	*	*	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
H. 311	" genetic study of inheritance	*																										
H. 354	" insect and disease control																								*			
H. 382	" protection from weevil																											
H. 391	" fertilizer experiment	*																										
H. 428	" sand culture experiment	*																										
H. 565	" application of nitrate of soda to			*																								
H. 567	" large vs. small plants for planting			*																								
	Orchard Management—																											
H. 359	Apple trees for fillers			*																								
H. 537	Orchard, fertilizer experiment with acid phosphate					*																						
H. 536	" fertilizer experiment with excessive amounts of nitrate of soda																											
H. 535	" fertilizer experiment with various amounts of nitrate of soda																											
H. 579	" fertilizers for stone fruit orchards																											
H. 420	Grafting, to study the effect of root grafting, at different periods during the winter	*																										
H. 421	Grafting, planting grafts at different dates	*																										
H. 422	Grafting, piece root grafting vs. whole root	*												*														
H. 423	Grafting, methods of storing root grafts	*																										
H. 30	Orchard, cost of establishing an			*	*			*																				*
H. 407	" vegetable intercrops and vetch in an																											
H. 42	" protection from wind							*						*												*		
H. 49	" co-operative trials for the production of other stations													*														
H. 331	" soil management, methods of																						*					
H. 368	" rotations in			*																								
H. 373	" heating			*																								
H. 403	" clean cultivation of an																						*					
H. 404	" alfalfa sod mulch in an																						*					
H. 405	" soiling crops and hairy vetch in an																						*					
H. 406	" red clover and alfalfa and mulch in an																						*					
H. 408	" farm rotation and hairy vetch in an																						*					
H. 411	" irrigation of an																						*					
H. 542	" grass mulch vs. removing hay in sod					*																						
H. 543	" cultivation vs. sod culture for an					*																						
H. 363	Fruit trees, heading back			*																								
H. 364	Pruning, cost of			*																								
H. 409	Stone fruit, cultural methods for stone fruit orchards																						*					
H. 410	Stone fruit, thinning																						*					
H. 369	Spraying and dusting, cost of			*		*																						
H. 370	Dusting vs. spraying for control of disease			*		*																						
H. 326	Blasting vs. digging holes for planting																											
H. 358	Stock, effect of grade stock in ultimate growth																											
H. 360	Stock, apple, variety experiment			*																								

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	POMOLOGY—Concluded																											
	Orchard Management—Concluded																											
H. 362	Stock, home grown vs. imported	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 365	Stock, cherry, variety experiment	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 367	Stock, nursery, best grade to plant	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 580	Cover crop—annual	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 578	Cover crop—sweet clover	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	*	..	..	..	..
H. 575	Collar Rot—control methods	..	..	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..
	Tree Fruit—																											
H. 22	Apple, breeding	*	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..	*	..	*	*	..	*	..	..	..
H. 23	" " for the prairie province	*	..	..	..	..	..	..	..	..	..	..	..	*	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..
H. 24	" bud heredity	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 25	" close planting experiment	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 26	" cover crop experiment	..	..	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	*
H. 28	" influence of stock on scions	*	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 29	" keeping experiment	*	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..
H. 31	" pollination	*	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 32	" pruning experiment	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 33	" variety experiment	*	*	*	*	*	*	*	*	..	*	*	*	*	*	*	*	*	..	*	*	*	*	*	*	*	*	*	*
H. 359	" trees for fillers	..	..	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 361	" intercropping trees 20′ x 20′ apart	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 412	" fertilization of apple trees	..	..	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..
H. 413	" thinning experiment	..	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..
H. 414	" different dates of picking for storage	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..
H. 416	" Jonathan breakdown	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..
H. 418	" identification by the leaves and stems	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 530	" economy of apple fillers	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..
H. 531	" biennial bearing	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..
H. 532	" different methods of grafting	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..
H. 547	" comparison of commercial varieties	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 564	" transplanting twelve year old apple trees	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

H. 323	Apricot, training experiment																							*				
H. 574	" breeding																					*						
H. 334	" variety experiment																					*		*				
H. 533	" pruning experiment																					*						
H. 349	Cascara, growing																							*				
H. 34	Cherry, breeding	*												*			*											
H. 365	" stock, variety experiment			*																								
H. 35	" variety experiment	*	*	*		*	*	*	*					*			*				*		*	*	*	*		
H. 36	Diseases and pests of fruit trees													*														
H. 343	Elaeagnus, variety experiment																								*			
H. 337	Fig, variety experiment																								*			
H. 346	Lavender growing																								*			
H. 342	Loquat, variety experiment																								*			
H. 336	Medlar, variety experiment																								*			
H. 41	Native fruits, collection of													*														
H. 322	Nectarine, training experiment																								*			
H. 333	" variety experiment																						*		*			
H. 320	Nuts, breeding																								*			
H. 338	" filbert, variety experiment			*																			*		*			
H. 352	" almond, variety experiment																								*			
H. 353	" chestnut, variety experiment																								*			
H. 351	" walnut, variety experiment																						*					
H. 344	Olive, growing																								*			
H. 321	Peach, training experiment																								*			
H. 332	" variety experiment			*																			*		*			
H. 534	" pruning experiment																						*					
H. 329	Pears, fertilizer experiment																								*			
H. 43	" breeding	*																					*		*			
H. 44	" variety experiment		*	*		*	*	*	*					*									*	*	*			
H. 355	" pruning experiment																						*		*			
H. 366	" growing commercially			*																								
H. 529	" double working for blight																						*					
H. 345	Persimmon, variety experiment																								*			
H. 45	Plums, breeding	*							*					*			*			*	*				*			
H. 46	" pollination	*																										
H. 47	" stock propagation													*														
H. 48	" variety experiment	*	*	*		*	*	*	*				*	*	*	*	*	*			*	*	*	*	*	*	*	
H. 367	" nursery stock, best grade to plant			*																								
H. 339	Pomegranate, variety experiment																								*			
H. 335	Quince, variety experiment																						*		*			
H. 341	Tea, growing																								*			
H. 577	Prune, pruning experiment																						*					
H. 576	" variety experiment																						*					

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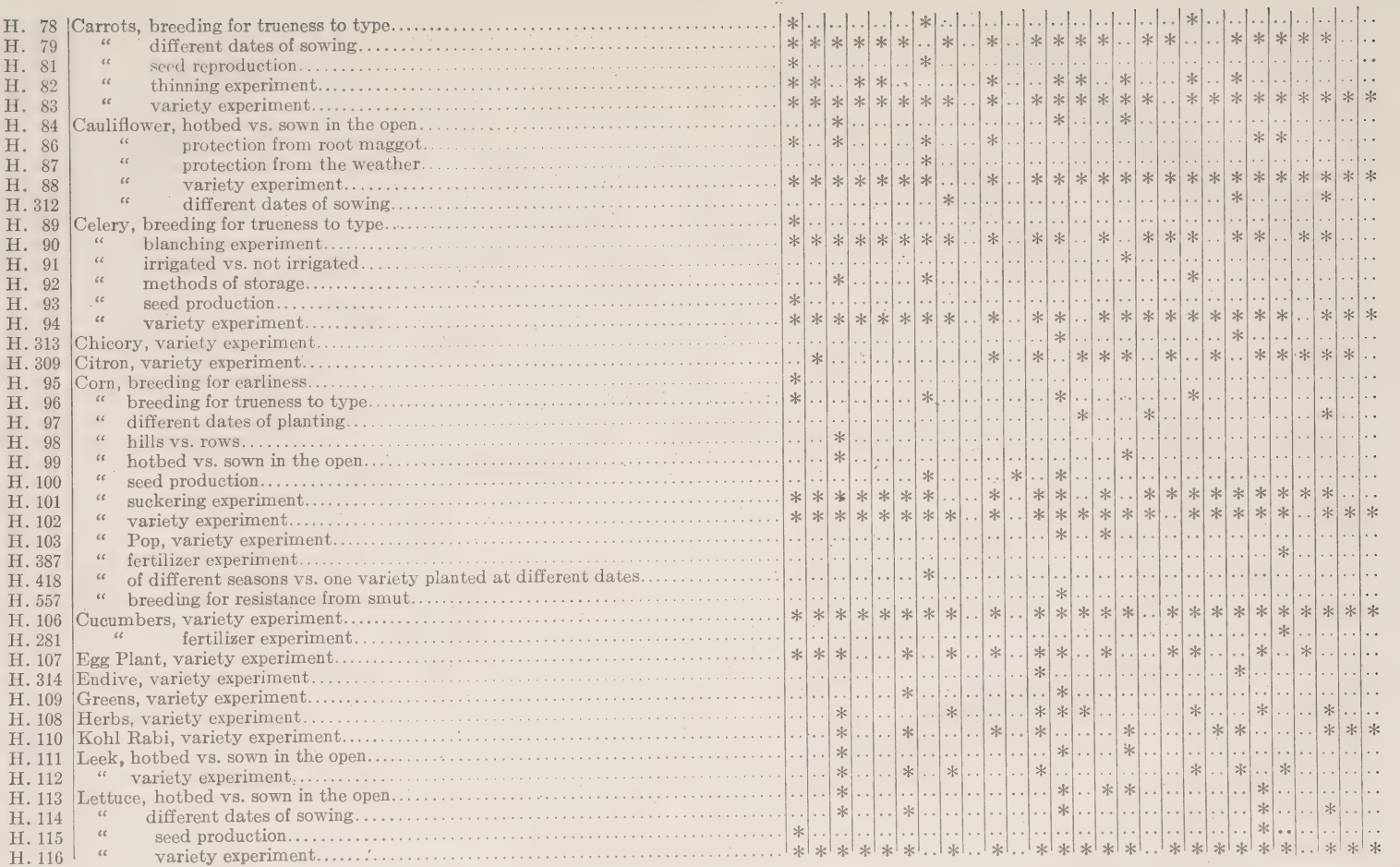
	VEGETABLE GARDENING																											
H. 51	Artichoke, variety experiment																*									*		
H. 52	Asparagus, breeding							*																				
H. 53	" distances of planting							*																				
H. 54	" variety experiment	*	*		*			*								*	*	*			*	*				*		
H. 55	Bean, breeding for immunity to Anthracnose						*													*					*			
H. 56	" " for yield and hardiness	*						*			*												*					
H. 57	" of different seasons vs. one variety planted at different dates	*	*		*						*				*		*				*							
H. 58	" distances of planting	*	*		*	*	*		*						*	*				*		*				*		
H. 60	" broad, variety experiment										*		*		*	*						*			*			
H. 61	" bush, variety experiment	*	*	*	*	*	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	
H. 62	" pole, variety experiment	*				*	*		*											*		*							
H. 63	" weekly sowings for yield														*					*			*						
H. 541	" seed production											*																	
H. 64	Beet, breeding for trueness to type	*					*																						
H. 65	" different dates of sowing	*	*	*	*	*	*	*		*	*		*	*	*	*			*	*		*	*	*	*				
H. 66	" seed production	*						*																					
H. 67	" thinning experiment	*	*		*						*			*	*		*			*								
H. 68	" variety experiment	*	*	*	*	*	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*
H. 69	Borecole or Kale, variety experiment			*	*						*		*			*			*	*		*				*		
H. 70	Brussels Sprouts, variety experiment	*	*	*	*		*		*		*		*			*	*	*	*		*	*		*			*		
H. 71	Cabbage, breeding for trueness to type	*						*																					
H. 72	" different dates of sowing for storage	*	*	*		*	*		*		*		*	*				*	*	*		*		*	*				
H. 73	" different distances apart														*														
H. 74	" hotbed vs. sown in the open			*	*		*				*		*		*	*		*						*					
H. 75	" protection from root maggot	*		*	*			*			*																		
H. 76	" seed production	*		*				*																					
H. 77	" variety experiment	*	*	*	*	*	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
H. 385	" fertilizer experiment																							*					
H. 436	" identification of cabbage by pod character	*																											


H. 78 Carrots, breeding for trueness to type
H. 79 " different dates of sowing
H. 81 " seed reproduction
H. 82 " thinning experiment
H. 83 " variety experiment
H. 84 Cauliflower, hotbed vs. sown in the open
H. 86 " protection from root maggot
H. 87 " protection from the weather
H. 88 " variety experiment
H. 312 " different dates of sowing
H. 89 Celery, breeding for trueness to type
H. 90 " blanching experiment
H. 91 " irrigated vs. not irrigated
H. 92 " methods of storage
H. 93 " seed production
H. 94 " variety experiment
H. 313 Chicory, variety experiment
H. 309 Citron, variety experiment
H. 95 Corn, breeding for earliness
H. 96 " breeding for trueness to type
H. 97 " different dates of planting
H. 98 " hills vs. rows
H. 99 " hotbed vs. sown in the open
H. 100 " seed production
H. 101 " suckering experiment
H. 102 " variety experiment
H. 103 " Pop, variety experiment
H. 387 " fertilizer experiment
H. 418 " of different seasons vs. one variety planted at different dates
H. 557 " breeding for resistance from smut
H. 106 Cucumbers, variety experiment
H. 281 " fertilizer experiment
H. 107 Egg Plant, variety experiment
H. 314 Endive, variety experiment
H. 109 Greens, variety experiment
H. 108 Herbs, variety experiment
H. 110 Kohl Rabi, variety experiment
H. 111 Leek, hotbed vs. sown in the open
H. 112 " variety experiment
H. 113 Lettuce, hotbed vs. sown in the open
H. 114 " different dates of sowing
H. 115 " seed production
H. 116 " variety experiment

Project No.		Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Ft. Vermilion	Sub-stations
	VEGETABLE GARDENING—Continued																											
H. 117	Market Gardening, to find if profitable																*											
H. 118	Melon, musk, breeding													*									*					
H. 119	" " hothouse or hotbed vs. cold frame or outside sowing							*							*								*		*			
H. 120	" " different methods of culture													*														
H. 122	" " variety experiment	*				*	*	*	*		*			*	*	*	*		*	*			*	*	*	*		
H. 123	" water, different methods of culture												*	*														
H. 124	" " transplanting vs. sown in the open													*														
H. 125	" " variety experiment	*					*	*	*		*			*		*	*			*			*			*		*
H. 126	Okra, variety experiment						*							*	*					*			*			*		
H. 127	Onion, autumn vs. spring sowing	*		*			*				*		*	*								*	*			*		
H. 128	" breeding for trueness to type	*						*	*														*					
H. 129	" different dates of sowing			*										*												*		
H. 130	" distances apart of planting in rows			*																								
H. 131	" growing sets	*	*	*											*	*	*		*									
H. 132	" method of controlling maggot	*		*					*		*											*						
H. 133	" seed production	*						*															*					
H. 134	" seed vs. sets	*	*	*		*					*												*			*		
H. 135	" sets, best size for planting			*											*													
H. 136	" thinning experiment		*								*					*				*			*					
H. 137	" transplanting vs. sown in the open		*	*			*				*			*									*		*			
H. 138	" variety experiment	*	*	*	*	*	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
H. 378	" sets, variety experiment												*						*			*		*					
H. 379	" autumn vs. spring fertilizing																							*					
H. 389	" fertilizer experiment																												
H. 140	Parsley, variety experiments		*				*		*		*					*	*			*	*	*		*		*		
H. 141	Parsnips, breeding for trueness to type	*						*														*	*					
H. 142	" different dates of sowing	*	*	*		*	*				*		*						*	*		*	*	*	*	*			
H. 143	" seed production	*						*																					
H. 144	" thinning experiment	*	*	*	*						*			*			*			*									
H. 145	" variety experiment	*	*	*		*	*		*		*		*	*	*	*	*	*		*	*	*	*	*			*	*	*

H. 146	Peas, breeding for dwarf plant bearing large peas	*																										
H. 147	" breeding for yield	*						*	*													*						
H. 148	" different distances of planting	*	*	*	*	*	*		*		*		*		*				*	*		*		*	*			
H. 149	" double vs. single rows																	*										
H. 150	" varieties of different seasons vs. one variety planted at different dates	*	*		*		*				*			*	*		*	*					*					
H. 151	" seed treated chemically vs. not treated	*																										
H. 152	" supports vs. no supports	*	*																									
H. 153	" variety experiment	*	*	*	*	*	*	*	*		*			*	*	*	*	*		*	*	*	*	*	*	*	*	*
H. 154	" variety experiment for yield of green peas	*		*									*										*		*			
H. 155	" weekly sowings for yield																			*						*		
H. 315	" breeding for new varieties																					*						
H. 384	" soil insecticides																							*				
H. 316	" rate of seeding experiment																					*						
H. 430	" seed production	*										*																
H. 540	" variety tests for canning purposes											*																
H. 156	Peanut growing											*		*											*	*		
H. 157	Peppers, variety experiment	*	*	*			*		*		*		*	*	*	*	*	*		*	*	*	*	*	*	*		
H. 437	" breeding for earliness	*																										
H. 158	Potatoes, beetle control		*				*		*																			
H. 159	" cut before sprouting vs. sprouted and then cut		*													*												
H. 160	" cost of production		*		*	*	*				*			*		*		*				*			*			
H. 161	" different dates of planting to obtain best seed						*										*					*						
H. 162	" different dates of planting to obtain best yield	*			*	*	*				*		*		*	*	*	*	*	*		*			*	*		
H. 163	" different depths of planting					*								*	*		*				*					*		
H. 164	" different sizes of sets				*						*			*	*		*				*	*				*		
H. 165	" distances of planting				*	*					*			*	*		*				*	*						
H. 166	" few vs. many cultivations					*					*				*													
H. 167	" fresh cut sets vs. older cut sets																				*					*		
H. 168	" growing certified seed. (See also Division of Botany)		*		*	*							*	*							*	*	*					
H. 169	" growing on different soils to obtain best seed																											
H. 170	" harvesting at different dates for seed					*											*								*			
H. 171	" hill selection for seed. (See also Division of Botany)		*			*	*	*			*				*					*					*	*		
H. 172	" hill vs. level cultivation										*				*						*					*		
H. 174	" home grown vs. northern or eastern grown seed	*															*					*	*					
H. 568	" seed treated with fungicide before vs. after sprouting																									*		
H. 569	" leaving all eyes vs. removing all but one eye per set																									*		
H. 178	" methods of storage	*				*																						
H. 310	" rotted vs. fresh vs. no manure														*													
H. 179	" seed treated chemically vs. not treated	*				*								*								*				*		
H. 180	" seed treated with plaster vs. not treated																							*				
H. 181	" selection for shallow-eyed strain		*																									
H. 182	" spraying experiment		*			*	*				*		*							*					*			
H. 183	" sprouted vs. not sprouted for earliness	*	*		*	*					*		*		*			*		*		*			*	*		

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	VEGETABLE GARDENING—Concluded																											
H. 186	Potatoes, variety experiment	*	*	..	*	*	*	*	..	..	..	..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	..
H. 317	" seed end vs. stem end for seed	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	*	..	..
H. 318	" uniform vs. rough for seed	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 374	" seed from different sources	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	*	..	..	*	..	..
H. 375	" seed required per acre	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..
H. 383	" fertilizer experiment	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..
H. 489	" breeding	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..
H. 496	" breaking off vs. leaving on cellar sprouts at planting	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..
H. 497	" breaking off vs. leaving on cellar sprouts when bringing seed upstairs to sprout	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..
H. 546	" large vs. small for seed purposes	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 187	Pumpkin, breeding	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 188	" variety experiment	*	*	*	*	*	..	*	*	*	..	*	..	*	*	*	*	*	..	..	*	..	*	..	*	..	..	*
H. 425	" hotbed vs. sown in the open	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..
H. 189	Radish, breeding to improve quality	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 192	" variety experiment	*	*	*	*	*	..	*	..	*	..	*	..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
H. 193	Rhubarb, breeding	*	*	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..	*	..	..	*	..	..	..	..	..	..
H. 195	" variety experiment	*	*	..	..	..	..	*	*	..	..	..	..	..	*	..	*	*	..	..	*	*	..	..	..	*	*	..
H. 356	" development from seed	..	..	*	..	*	*	..	..	..	*	..	*	..	..	..	..	..	*	..	..	*	*	..	*	..	..	..
H. 197	Salsify, variety experiment	*	*	*	..	..	*	..	*	..	*	..	*	*	*	*	*	*	..	*	..	*	*	*	..	*	*	..
H. 198	Spinach, seed production	..	*	..	..	*	..	..	..	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 199	Spinach, variety experiment	*	*	*	..	..	*	..	*	..	*	..	*	*	*	*	*	*	..	*	..	*	*	*	..	*	*	*
H. 200	Squash, breeding	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H. 201	" variety experiment	*	*	*	*	*	*	*	*	..	*	..	*	*	*	*	*	..	*	*	*	*	*	*	*	*	*	..
H. 426	" hotbed vs. sown in the open	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..	..	..	..	..	..	..
H. 202	Sunberry, trial experiment	..	..	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*	..	..	..	..	..
H. 203	Swiss Chard, variety experiment	..	..	*	..	..	*	..	*	..	..	..	*	..	..	*	*	..	*	*	..	*	..	..	..	*	..	*

H. 204	Tomatoes, breeding for earliness	*						*	*					*									*					
H. 205	" distances of planting																*											
H. 206	" method of ripening green fruit	*						*			*																	
H. 207	" method of training	*	*		*	*	*				*		*	*	*	*	*	*	*	*		*	*	*	*			
H. 209	" pots or boxes vs. flats	*																										
H. 210	" transplanting one or more times																*											
H. 211	" variety experiment	*	*	*	*	*	*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*		*	*	*
H. 388	" fertilizer experiment																						*	*				
H. 417	" different dates of planting										*																	
H. 431	" pruning experiment	*													*											*		
H. 432	" a study of the hybrid vigor of F. I. tomato plants	*																										
H. 208	" mulching experiment																								*			
H. 438	" breeding for hardiness										*																	
H. 212	Turnips, early vs. late sowing													*														
H. 213	" swede for table use							*						*														
H. 191	" thinning experiment							*																				
H. 214	" variety experiment	*	*	*			*	*	*		*		*	*	*	*	*		*	*	*	*	*	*	*		*	*
H. 390	" protection from root maggot																							*				
H. 216	Vegetable Marrow, variety experiment	*	*	*			*							*	*	*				*			*	*	*	*		
H. 215	Vegetable crop rotation																*											
H. 217	Vegetables rarely seen in the prairie provinces. Variety experiment													*														
H. 218	Vegetable seed, autumn vs. spring sowing	*	*			*	*	*			*		*	*	*			*		*		*						
H. 219	" " test for trueness to name and type	*																										
H. 393	Vegetable preliminary testing of varieties and strains							*																				
H. 415	Vegetables, irrigation of																						*					
H. 566	Vegetable crop nitrate of soda and manure vs. manure alone for										*																	

NOTE.—For Horticultural disease investigations see under Division of Botany.
For other Horticultural investigations see under Division of Chemistry.
See Division of Chemistry for fertilizer experiments.

ILLUSTRATION STATIONS

Project No.		Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
I. 1	Rotations for grain farming	.....	.....	.....	.....	.....	* * *	* *	* *	.....
I. 2	Profitable recurrence of fallow in rotation	.....	.....	.....	.....	.....	* * *	* *	* *	.....
I. 3	Summerfallow treatment	.....	.....	.....	.....	.....	* * *	* *	* *	.....
I. 4	Corn versus summerfallow	.....	.....	.....	.....	.....	* * *	* *	* *	.....
I. 5	Introducing suitable varieties of grain	.....	.....	.....	.....	.....	* * *	* *	* *	.....
I. 7	Introducing western rye grass as a hay crop	.....	.....	.....	.....	.....	* * *	* *	* *	.....
I. 8	Production of western rye grass seed	.....	.....	.....	.....	.....	* * *	* *	* *	.....
I. 9	Growing alfalfa	.....	.....	.....	.....	.....	* * *	* *	* *	*
I. 10	Introducing sweet clover as a humus-former where light soils occur	*	*	*	*	*	* *	* *	* *	.....
I. 12	Treating grain for smut	*	*	*	*	*	* *	* *	* *	*
I. 13	Demonstrating the value of the trench silo	.....	.....	.....	.....	.....	*	* *	* *	.....
I. 15	Adoption of a suitable rotation for mixed farming	*	.....	*	*	*	.....	.....	.....	* *
I. 16	Stimulation of better cultural methods	* *	*	* *	* *	* *	.....	.....	.....	*
I. 17	Stimulation of clover seed growing	* *	*	* *	* *	* *	.....	.....	.....	.....
I. 18	Tile drainage	* *	*	* *	* *	* *	.....	.....	.....	.....
I. 19	Introducing corn as a fodder crop where not previously grown	* *	*	* *	* *	* *	.....	.....	.....	* *
I. 20	Introducing mangels and turnips as stock food crops where not previously grown	* *	*	* *	* *	* *	.....	.....	.....	* *
I. 21	Applying the practice of after-harvest cultivation	* *	*	* *	* *	* *	.....	.....	.....	* *
I. 22	The influence of lime on crop growth	*	*	*	*	*	.....	.....	.....	.....
I. 23	Demonstrating the most economical fertilizer mixtures	.....	.....	.....	.....	.....	.....	.....	.....	.....
I. 24	Growing certified seed potatoes	.....	.....	.....	.....	.....	.....	.....	.....	.....
I. 29	Introducing sunflowers as a fodder or silage crop	*	*	*	*	*	*	*	*	*
I. 31	Compiling the cost of production data	*	*	*	*	*	*	*	*	*

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	ANIMAL FEEDS AND SUBSTITUTES																											
P. 82	Skim or buttermilk vs. beef scrap		*		*	*							*					*						*				
P. 83	Skim or buttermilk vs. beef scrap vs. meat						*	*													*							
P. 85	Semi-solid vs. fresh buttermilk	*																										
P. 86	Tankage vs. beef scrap	*									*					*	*											
P. 87	Fish meal vs. beef scrap or beef meal					*																*	*	*	*			
P. 88	Effects of various animal feeds on fertility and hatchability						*							*										*				
P. 162	Vegetable vs. animal protein for egg production														*									*				
P. 171	Beef scrap vs. canners meats vs. alfalfa																											
	BREEDING																											
P. 109	In and in vs. line vs. out breeding							*												*								
P. 110	Breeding for standard type and production	*														*					*							
P. 111	Breeding for fertility, hatchability and viability	*	*		*	*	*	*	*		*		*	*		*	*			*	*	*	*		*			
	Exp. (a) Hens vs. pullets.																											
	Exp. (b) Good vs. poor layers.																											
P. 112	Continuance of sterility							*																				
P. 113	Relation of winter production to fertility, hatchability and viability		*				*	*			*										*	*	*					
P. 114	Breeding for egg size	*	*			*		*	*				*					*		*	*		*		*			
	Exp. (a) Inheritance of egg size characteristics.																											
P. 115	Breeding for uniformity in eggs	*						*	*				*								*							
P. 117	Sex influence on egg colour																			*								
P. 118	Sex influence on size of offspring																				*							
P. 120	Confinement vs. range in breeding																							*	*			
P. 172	Inheritance of side sprigs in poultry										*																	
P. 174	Fertility in first eggs after prolonged rest																						*					
P. 178	Duration of fertility resulting from original mating after the removal or change of male bird	*																										
P. 180	The use of ultra-violet light on breeding stock	*																										

Project No.	———	Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Ft. Vermilion	Sub-stations
	BROODING																											
P. 18	Best type or make of brooder	*	*								*											*						
P. 21	Starvation period for chicks	*																										
P. 22	Brooding costs	*			*		*		*		*							*			*	*						
P. 23	Artificial vs. natural brooding										*																	
P. 177	Effect of cod liver oil and sunlight upon growing chicks	*																										
P. 182	The effects of ultra-violet light upon growing chicks	*																										
	CULLING																											
P. 51	Hogan test for culling								*												*							
P. 52	Selection of pullets by handling								*												*							
P. 53	Selection of layers by pigmentation																				*							
P. 54	Selection of layers by eye, shape and colour																											
	DISEASES																											
P. 129	Studies of chicken pox and roup	*																										
P. 130	Vaccines for chicken pox and roup	*																										
P. 134	Life history of internal parasites	*																										
P. 135	Anthelmintics	*																										
P. 137	Treatment for external parasites	*																										
P. 138	Leg weakness	*														*												
P. 141	Black head in turkeys	*																										
P. 142	Duck diseases	*																										
P. 143	Prevention of frozen combs							*												*								
P. 186	Bacillus pullorum infection of fowls																											

	ECONOMICS																											
P. 13	Hatching eggs vs. day old chicks										*		*									*						
P. 148	Profits from poultry flocks	*	*																			*						
P. 149	Total cost of producing stock	*																										
	EGG PRODUCTION																											
P. 55	Methods of handling for egg production		*						*				*		*								*	*	*			
	Exp. (a) Confinement vs. range.																											
	Exp. (b) Electric light.																											
	Exp. (c) Size of pen.																											
P. 56	Pedigree breeding for egg production	*	*	*	*	*	*	*	*				*		*	*		*		*	*	*	*	*				
	Exp. (a) Influence of sire on egg production.																											
P. 57	Relation of body weight to egg production																*				*				*			
P. 58	Best hatching date for egg production	*	*	*		*	*	*	*		*					*				*	*			*	*			
P. 59	Individuality in egg production							*	*				*								*							
P. 60	Pullets vs. hens for egg production		*	*		*	*		*		*		*					*			*							
P. 61	Comparison of breeds for egg production		*																		*							
P. 62	Costs of egg production	*	*		*	*	*	*	*		*		*	*				*			*			*	*			
P. 64	Egg laying contest. (Comparison of breeds for egg production, costs, etc.)	*	*	*	*	*	*		*						*	*				*				*				
P. 65	Record of Performance "A". (Comparison of production)							*													*							
P. 163	Relation between annual production and date first egg is laid	*					*						*				*				*							
P. 179	The influence of ultra-violet light on egg production	*																										
	FATTENING AND FINISHING																											
P. 34	Methods and rations for fattening and finishing broilers	*																						*				
P. 35	Costs of producing broilers		*					*																				
P. 37	Best age for caponising					*																						
P. 39	Costs of feeding and producing capons	*																										
P. 40	Capons vs. roasters	*																										
P. 41	Comparison of breeds for roasters																					*						
P. 42	Methods and rations for fattening and finishing roasters	*					*		*		*		*		*		*	*				*		*				
P. 43	Costs and gains in fattening roasters	*					*		*		*				*						*				*			
P. 44	Broilers vs. friers vs. roasters							*									*											
P. 45	Crate feeding hens and pullets								*																			
P. 47	Milk substitutes for fattening	*					*						*	*										*				
P. 167	Broilers vs. capons	*																										
P. 188	Potatoes as a substitute for corn meal in fattening					*																						

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	GRAIN AND MASH FEEDS																											
P. 76	Standard (home-mixed) vs. commercial grain		*	*	*	*																			*			
P. 78	Corn vs. barley. Exp. (b) from hatching date to end of laying period						*				*			*			*				*							
P. 79	Standard (home-mixed) vs. commercial mash		*	*	*	*		*	*							*		*			*				*			
P. 80	Dry vs. wet mash		*					*																					
P. 185	Dry vs. dry and wet mash								*					*															
P. 81	Relative value of different mashes																							*					
P. 169	Hulless vs. common oats for laying pullets														*		*	*											
P. 170	Corn vs. no corn for laying pullets												*		*			*					*						
P. 184	Standard (home-mixed) ration containing corn vs. home grown ration without corn vs. ration containing home grown grains fed singly					*																							
	GREEN FEEDS AND SUBSTITUTES																												
P. 90	Green feed vs. no green feed or substitute															*									*				
P. 91	Most suitable green feed																							*					
P. 92	Clover vs. sprouted oats					*							*																
P. 94	Roots vs. clover vs. sprouted oats			*																									
P. 95	Roots vs. clover vs. sprouted oats vs. Epsom Salts			*	*		*	*			*											*	*	*					
P. 96	Effects of green feed on watery eggs	*																						*	*				
P. 97	Effects of green feed on egg size and weight	*					*																		*				
P. 159	Effects of various green feeds on fertility	*			*		*				*														*				
P. 166	Substitutes for green feed	*																											
P. 183	Swedes or turnips vs. mangels vs. potatoes vs. Epsom Salts					*																							
	INCUBATION																												
P. 1	Best type or make of incubator (hot air, hot water, electric)	*	*		*	*	*				*			*				*			*								
P. 2	Best site for incubation										*											*							
P. 3	Best date for incubation		*		*	*	*	*	*		*		*	*			*	*			*	*			*				
P. 4	Ventilation of incubator								*																				

P. 5	Temperature of incubator								*																		
P. 6	Moisture in incubator	*	*						*					*						*							
P. 8	Loss of weight in eggs during incubation								*		*			*						*	*						
P. 9	Turning eggs	*							*																		
P. 10	Cooling eggs								*																		
P. 12	Hatching results by breeds	*	*											*							*	*					
P. 14	Custom hatching																							*			
P. 15	Incubation costs						*				*							*			*						
P. 17	Natural vs. artificial incubation			*							*																
P. 161	Incubation of chilled eggs	*																									
P. 181	The use of ultra-violet light in incubation	*																									
	LAYING HOUSES																										
P. 66	Best type of laying house	*			*	*					*				*												
P. 69	Ventilation of laying house	*																									
P. 70	Best type of floor for laying house																							*			
P. 72	Best type of front for laying house	*						*			*													*			
P. 73	Back windows for laying house																							*			
P. 74	Temperature of houses of different depths						*	*																			
P. 75	Best kind of litter																										
P. 189	Cello-glass as a substitute for glass in poultry houses																				*						
	MARKETING																										
P. 48	Best date for marketing surplus stock						*	*			*																
P. 175	Shipping market eggs with large ends up vs. large ends down	*	*												*									*			
P. 176	"Guaranise" process for market eggs	*	*												*									*			
	MISCELLANEOUS																										
P. 150	Egg preservatives. (See also Chemistry)	*	*				*	*							*		*	*		*				*			
P. 151	Watery eggs	*																									
P. 153	Types of trap nests																	*									
P. 154	Time taken for trap-nesting						*	*																			
P. 155	Sanitation								*																		
P. 156	Storing eggs	*													*												
	Exp. (a) Fertile vs. infertile eggs for storage.																										
P. 157	Improving quality of poultry in district					*	*		*				*		*	*				*							
	Exp. (a) By hatching eggs.																										
	Exp. (b) By cockerels.																										

Project No.		Ottawa	Charlottetown	Kentville	Nappan	Fredericton	Ste. Anne	Cap Rouge	Lennoxville	Farnham	La Ferme	Harrow	Kapuskasing	Morden	Brandon	Indian Head	Rosthern	Scott	Swift Current	Lethbridge	Lacombe	Invermere	Summerland	Agassiz	Sidney	Beaverlodge	Ft. Vermilion	Sub-stations
	MISCELLANEOUS FEEDS AND FEEDING																											
P. 98	Oyster vs. clam shells vs. gypsum			*	*																							
P. 99	Ration lacking variety														*													
P. 100	Best chick feeds (brooding and rearing periods)	*											*	*			*	*		*								
P. 103	Composition of different commercial feeds	*																										
P. 104	Feeds for fertility, hatchability and viability	*	*	*	*	*	*						*	*	*					*	*			*				
P. 105	Buttermilk vs. water					*											*											
P. 106	Snow vs. water						*						*			*						*						
P. 107	Methods of feeding layers																						*					
P. 108	Cost of feeding layers (irrespective of egg production)		*						*				*												*			
P. 160	Vitamine feeds for chicks	*															*								*			
P. 165	Effect of feeding cod liver oil on weight and texture of egg shell	*																										
P. 168	Vitamine feeds for winter egg production	*		*																	*							
P. 187	Potatoes as a substitute for corn meal in laying mash					*																						
	REARING																											
P. 24	Best type of colony house	*			*																							
P. 25	Best size of flock for rearing	*																										
P. 28	Rate of growth in rearing						*				*																	
P. 29	Separation of the sexes in rearing	*					*																					
P. 30	Hastening maturity of late pullets							*																				
	Exp. (a) Crate feeding.																											
	Exp. (b) Electric light.																											
	Exp. (c) Wet vs. dry mash.																											
P. 31	Rearing costs	*			*	*			*		*			*			*					*						
P. 32	Feeding methods in rearing	*		*		*					*																	

TURKEYS AND DUCKS

P. 121	Climate suitable for turkeys												*									*						
P. 122	Open shelters for turkeys on range																					*						
P. 124	Fertility and hatchability of turkey eggs												*									*						
P. 125	Mortality of turkeys												*									*						
P. 126	Costs of fattening turkeys																					*						
P. 127	Best breed of ducks and best marketing ages	*											*															
P. 128	Rearing and fattening methods, rations and costs in producing market ducks	*					*														*							
P. 173	Rate of growth of ducklings of various breeds	*																										

TOBACCO

CHEMICAL

T. 29	The effect of different forms of lime on Burley tobacco											*																
T. 46	The effect of lime on cigar tobacco									*																		
T. 57	Tobacco soil investigations	*																										
T. 60	Chemical studies of home grown tobacco	*																										
T. 70	The effect of cultural varieties upon the nicotine content of tobacco	*								*		*																

CULTURAL

T. 12	To determine the proper distances for transplanting different varieties of tobacco											*																
T. 16	A comparison of fall ploughing and spring ploughing for tobacco											*																
T. 23	The value of scaffolding as an aid in curing Burley tobacco											*																
T. 24	An inquiry into the feasibility of steaming tobacco into "case"											*																
T. 35	A test of various fall-sown cover crops											*																
T. 49	The feasibility of scaffolding cigar tobacco									*																		
T. 59	Studies on topping and suckering tobacco	*																										

CURING

T. 33	Steam as a source of heat for flue-curing tobacco											*																
T. 34	Flue-curing tobacco with Johnson's patent curing furnace											*																
T. 76	Flue-curing tobacco with the Beckett-Covill Patent curing furnace											*																
T. 79	Flue-curing tobacco with the Beckett-Covill twin furnaces											*																

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	DISEASE																											
T. 8	The bacteria and fungi associated with tobacco seed	*																										
T. 37	Cross breeding to develop resistance to the Thielavia root-rot disease	*									*	*																
T. 39	Seed-bed sanitation as a control for certain diseases of tobacco	*										*																
T. 40	A study of the species of Actinomyces occurring on fermented tobacco	*																										
T. 42	A field survey of tobacco diseases in Canada	*																										
T. 43	Seed treatment to control seed-borne diseases	*										*																
T. 44	The selection of strains resistant to the Thielavia root-rot disease within pure varieties of tobacco	*										*																
T. 77	Studies on the mosaic disease of tobacco	*										*																
T. 78	Studies on the Thielavia root-rot disease	*										*																
	FERTILIZERS																											
T. 6	The fertilization of tobacco seed beds											*	*															
T. 9	Fertilizer tests with flue-cured tobacco											*	*															
T. 10	A comparison of home mixed and commercial ready mixed fertilizers on flue-cured tobacco											*																
T. 11	The comparative efficiency of various sources of Nitrogen and Potash on flue-cured tobacco											*	*															
T. 18	Fertilizer tests with Burley tobacco											*	*															
T. 19	A comparison of home mixed and commercial ready mixed fertilizers on Burley tobacco											*																
T. 20	The comparative efficiency of various sources of Nitrogen and Potash on Burley tobacco											*																
T. 21	The relative efficiency of drilling vs. broadcasting commercial fertilizer on Burley tobacco											*																

T. 28	A comparison of direct and indirect application of manure to Burley tobacco											*																
T. 30	To determine the most profitable rate of manuring Burley tobacco											*																
T. 31	Quantitative fertilizer tests on cigar tobacco									*																		
T. 32	To study the effect of various fertilizers on the "burn" of tobacco									*		*																
T. 45	General fertilizer trials on cigar tobacco									*																		
T. 52	The use of Nitrate of Soda in the water at transplanting time									*																		
T. 54	The comparative efficiency of drilling versus broadcasting commercial fertilizer on cigar tobacco									*																		
T. 71	A comparison of various manures in tobacco fertilization									*																		
T. 74	Fertilizer tests with Green River tobacco											*																
	MISCELLANEOUS																											
T. 25	Control of the tobacco cutworm									*		*																
T. 41	The production of superior strains of tobacco	*																										
T. 80	Cured leaf cost of production studies	*								*		*											*					
	PHYSIOLOGICAL																											
T. 22	The effect of splitting the stalk on the subsequent cure of cigarette tobaccos											*																
T. 27	To determine the relation of the relative humidity in the barn to the flue-curing process											*																
T. 36	The effect of continuous cropping to Burley tobacco											*																
T. 72	A field study of the effect of the preceding crop on the subsequent growth of tobacco									*		*																
	ROTATIONS																											
T. 13	Crop rotations with flue-cured tobacco											*																
T. 15	Crop rotations with Burley tobacco											*																
T. 73	An experimental study of long and short rotations for tobacco									*		*																
	SEED																											
T. 26	The production of pure, high grade tobacco seed	*								*		*																

TOBACCO—Concluded

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	SEED BEDS																											
T. 1	Merits of various types of tobacco seed beds											*																
T. 2	Sterilization of tobacco seed beds											*																
T. 4	The type of soil most suitable for growing tobacco seedlings											*																
T. 5	To determine the rate, date, and method of sowing tobacco seed beds, which gives the best results											*																
T. 7	A comparison of home grown and foreign tobacco seed											*																
T. 53	A study on the cost of production of tobacco seedlings									*																		
	VARIETAL TESTS																											
T. 14	Varietal tests of flue-cured tobaccos											*																
T. 17	Varietal tests of Ontario air-cured tobaccos											*																
T. 47	General varietal tests	*								*		*		*									*	*	*	*		
T. 48	Comparison of cigar varieties	*								*																		

Note.—Projects Nos. T. 47 and T. 80 are also being conducted at St. Jacques L'Achigan, P.Q., under the supervision of the Central Farm, Ottawa, and at Kelowna, B.C., under the supervision of the Summerland Station, while certain trials under Project No. T. 47 are being carried out at the Manitoba Agricultural College, Winnipeg, and also at Salsgirth, Manitoba.

A portion of the work under project No. T. 77 is being conducted co-operatively at MacDonald College, Montreal.

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